

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122118\  
 Data File : VW007701.D  
 Acq On : 19 Dec 2018 14:53  
 Operator : SY/AP  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

apatel  
 12/20/2018 11:19:39 AM

Quant Time: Dec 20 06:34:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 05:57:50 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 76042    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 120499   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 109270   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 55956    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 40224    | 48.26 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.52% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 36031    | 49.01 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.02% |      |
| 50) Toluene-d8            | 10.32  | 98  | 137319   | 49.55 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.10% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 52532    | 49.07 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.14% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 33800  | 49.999  | ug/l | 100    |
| 3) Chloromethane              | 2.22 | 50  | 20085  | 48.385  | ug/l | 100    |
| 4) Vinyl Chloride             | 2.37 | 62  | 25300  | 47.879  | ug/l | 100    |
| 5) Bromomethane               | 2.78 | 94  | 16982  | 46.141  | ug/l | 100    |
| 6) Chloroethane               | 2.92 | 64  | 13418  | 47.464  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 26386  | 47.963  | ug/l | 100    |
| 8) Diethyl Ether              | 3.68 | 74  | 16859  | 50.033  | ug/l | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 39009  | 48.764  | ug/l | 100    |
| 10) Methyl Iodide             | 4.26 | 142 | 62168  | 48.250  | ug/l | 100    |
| 11) Tert butyl alcohol        | 5.17 | 59  | 12852  | 228.589 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 35984  | 47.963  | ug/l | 100    |
| 13) Acrolein                  | 3.89 | 56  | 10184  | 226.544 | ug/l | 100    |
| 14) Allyl chloride            | 4.66 | 41  | 46737  | 47.504  | ug/l | 100    |
| 15) Acrylonitrile             | 5.36 | 53  | 35130  | 244.407 | ug/l | 100    |
| 16) Acetone                   | 4.12 | 43  | 38272  | 245.220 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.37 | 76  | 110337 | 47.525  | ug/l | 100    |
| 18) Methyl Acetate            | 4.67 | 43  | 18772  | 50.575  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 53236  | 49.426  | ug/l | 100    |
| 20) Methylene Chloride        | 4.91 | 84  | 39387  | 41.871  | ug/l | 100    |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 38749  | 46.961  | ug/l | 100    |
| 22) Diisopropyl ether         | 6.31 | 45  | 90562  | 49.159  | ug/l | 100    |
| 23) Vinyl Acetate             | 6.26 | 43  | 269838 | 246.537 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 64150  | 47.335  | ug/l | 100    |
| 25) 2-Butanone                | 7.17 | 43  | 43977  | 240.566 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 46257  | 46.643  | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 42007  | 47.785  | ug/l | 100    |
| 28) Bromochloromethane        | 7.51 | 49  | 22377  | 48.427  | ug/l | 100    |
| 29) Tetrahydrofuran           | 7.52 | 42  | 27031  | 247.897 | ug/l | 100    |
| 30) Chloroform                | 7.68 | 83  | 73724  | 48.069  | ug/l | 100    |
| 31) Cyclohexane               | 7.95 | 56  | 55731  | 44.919  | ug/l | 100    |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 66867  | 47.870  | ug/l | 100    |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 56630  | 48.692  | ug/l | 100    |
| 37) Ethyl Acetate             | 7.25 | 43  | 19880  | 49.529  | ug/l | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 66908  | 48.849  | ug/l | 100    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV122118\  
 Data File : VW007701.D  
 Acq On : 19 Dec 2018 14:53  
 Operator : SY/AP  
 Sample : VSTDICCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

apatel  
 12/20/2018 11:19:39 AM

Quant Time: Dec 20 06:34:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 20 05:57:50 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 70227    | 48.594   | ug/l   | 100      |
| 40) Benzene                    | 8.32  | 78   | 149942   | 48.313   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.48  | 41   | 11492    | 50.429   | ug/l   | 100      |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 50890    | 48.930   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 40154    | 49.934   | ug/l   | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 44952    | 47.895   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 34258    | 49.747   | ug/l   | 100      |
| 46) Dibromomethane             | 9.46  | 93   | 20848    | 49.180   | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.64  | 83   | 54721    | 49.102   | ug/l   | 100      |
| 48) Methyl methacrylate        | 9.43  | 41   | 19906    | 49.593   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.45  | 88   | 6777     | 1008.347 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 94204    | 247.882  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 100758   | 48.389   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 53985    | 48.702   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 59480    | 48.579   | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 27969    | 47.860   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.65 | 69   | 35403    | 51.274   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 46986    | 48.418   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 80130    | 254.180  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 67748    | 253.484  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 38090    | 49.226   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 28474    | 48.114   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.86 | 164  | 37495    | 48.458   | ug/l   | 100      |
| 65) Chlorobenzene              | 11.66 | 112  | 113461   | 47.974   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 41419    | 49.012   | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.73 | 91   | 197427   | 48.646   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 154078   | 97.869   | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 72458    | 49.100   | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 120051   | 49.489   | ug/l   | 100      |
| 71) Bromoform                  | 12.35 | 173  | 21999    | 50.146   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.47 | 105  | 206488   | 48.819   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 36618    | 49.981   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 31276    | 49.318   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 24141m   | 28.499   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 47529    | 49.033   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.81 | 91   | 241487   | 49.047   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 138746   | 48.373   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 179762   | 49.272   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 10549    | 51.199   | ug/l   | 100      |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 148516   | 48.630   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 157626   | 49.240   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 181623   | 49.335   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 216191   | 49.003   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 196752   | 49.044   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 92763    | 48.199   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 93120    | 48.370   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 181089   | 49.233   | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 34409    | 48.856   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 84127    | 48.821   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6663     | 51.161   | ug/l   | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122118\  
Data File : VW007701.D  
Acq On : 19 Dec 2018 14:53  
Operator : SY/AP  
Sample : VSTDICCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

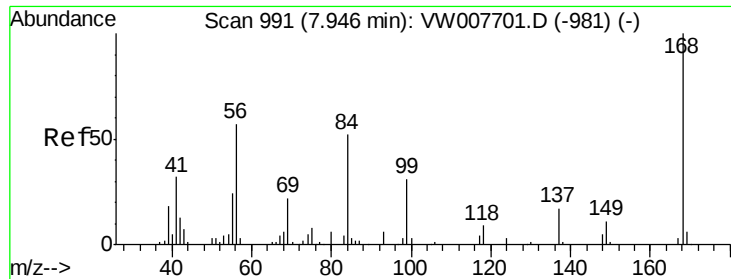
apatel  
12/20/2018 11:19:39 AM

Quant Time: Dec 20 06:34:36 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W122118S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 20 05:57:50 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 58393    | 48.818 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 30960    | 48.433 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 113458   | 51.305 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 50943    | 49.754 | ug/l  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 76042

Ion Ratio Lower Upper

168 100

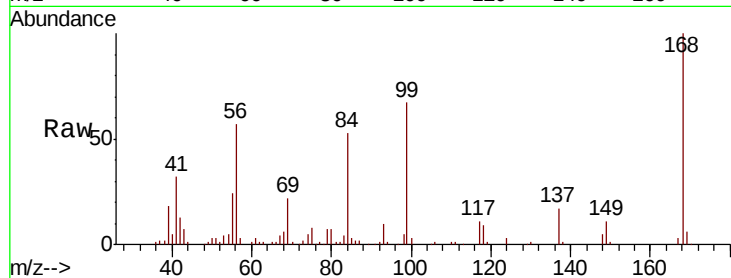
99 67.5 54.0 81.0

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

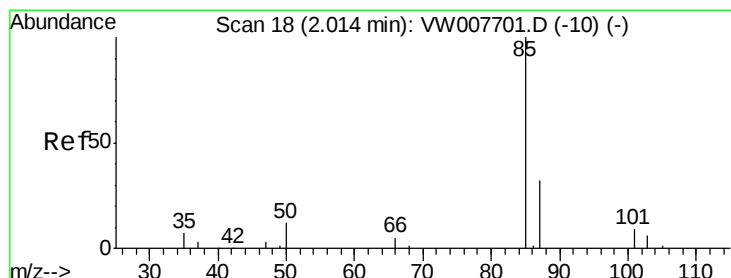
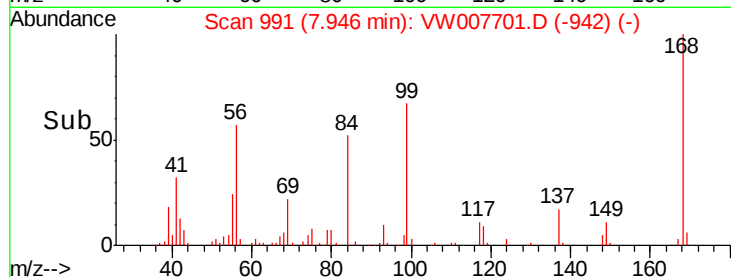
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 49.999 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW007701.D

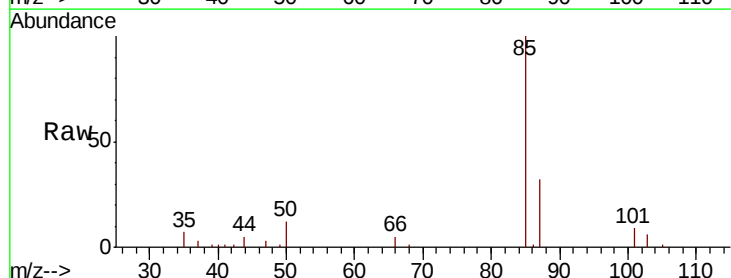
Acq: 19 Dec 2018 14:53

Tgt Ion: 85 Resp: 33800

Ion Ratio Lower Upper

85 100

87 32.5 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

10000

8000

6000

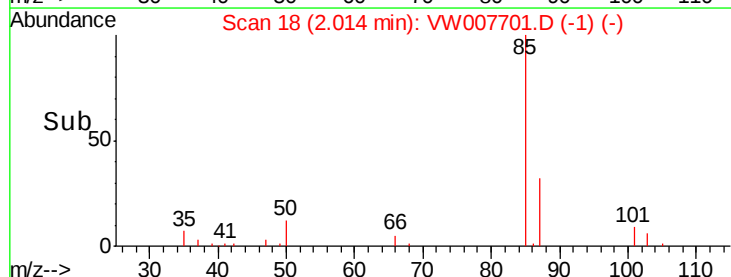
4000

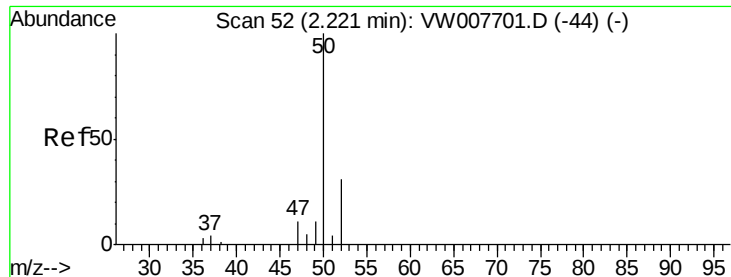
2000

0

2.00 2.20

Time-->





#3

Chloromethane

Concen: 48.385 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 20085

Ion Ratio Lower Upper

50 100

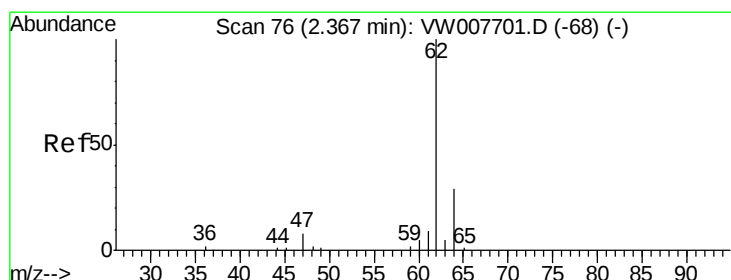
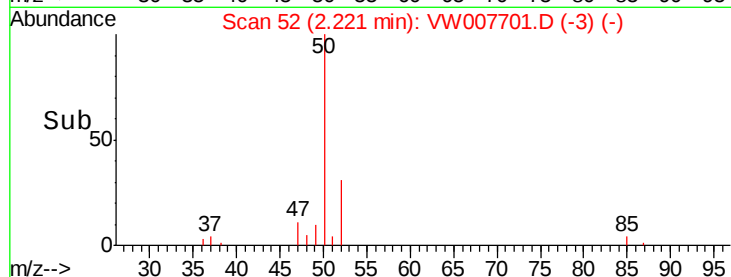
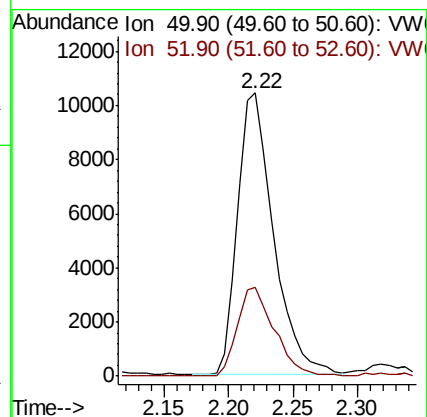
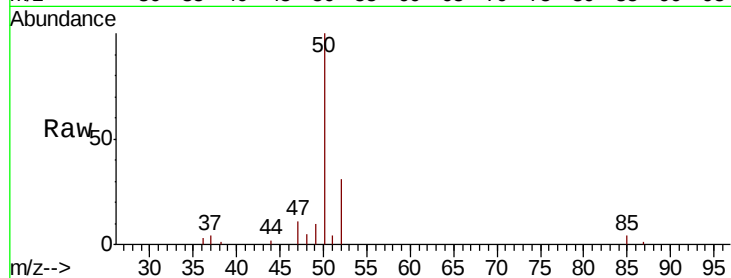
52 31.4 25.1 37.7

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



#4

Vinyl Chloride

Concen: 47.879 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW007701.D

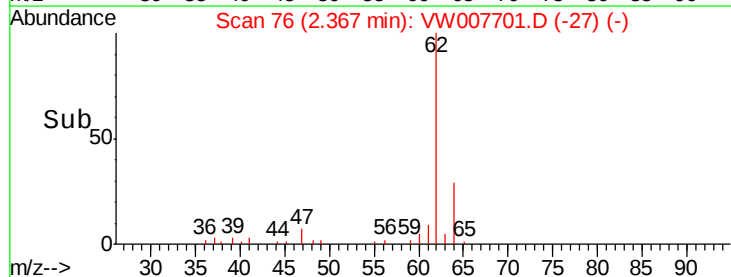
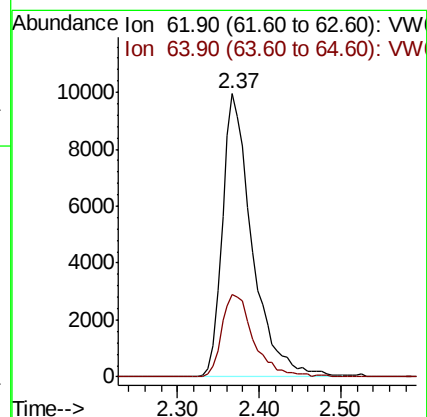
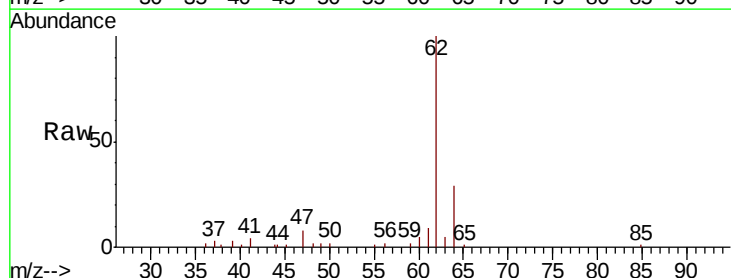
Acq: 19 Dec 2018 14:53

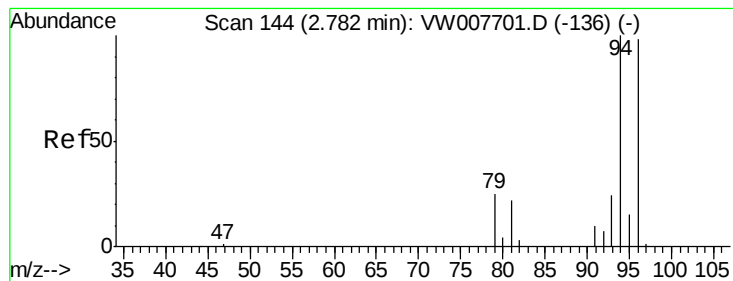
Tgt Ion: 62 Resp: 25300

Ion Ratio Lower Upper

62 100

64 29.2 23.4 35.0





#5

Bromomethane

Concen: 46.141 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Tot Ion: 94 Resp: 16982

Ion Ratio Lower Upper

94 100

96 97.7 78.2 117.2

Instrument :

MSVOA\_W

ClientSampleId :

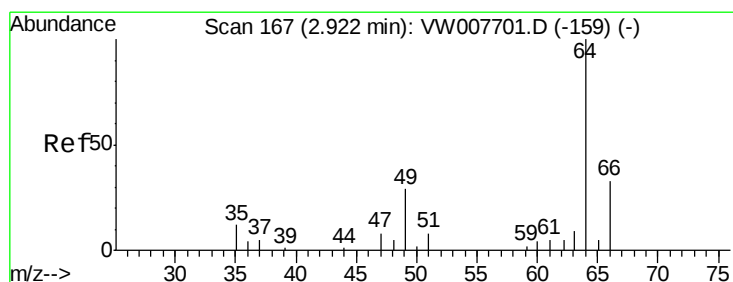
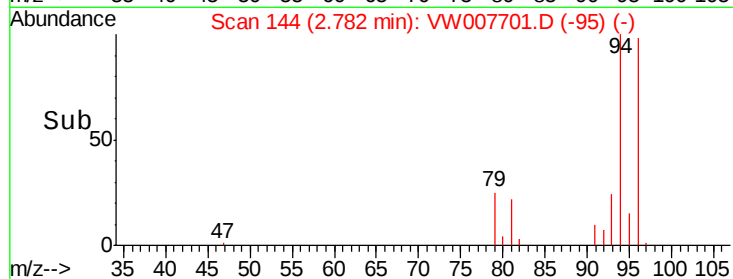
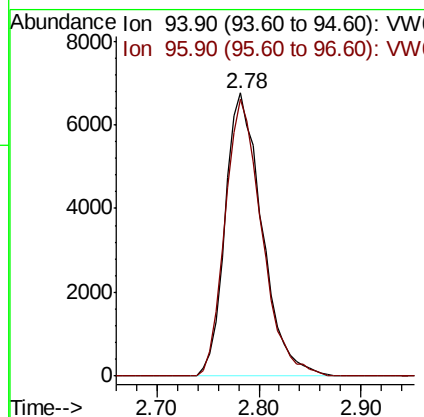
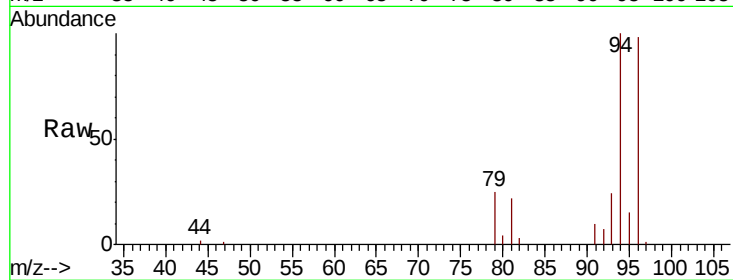
VSTDICCC050

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



#6

Chloroethane

Concen: 47.464 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW007701.D

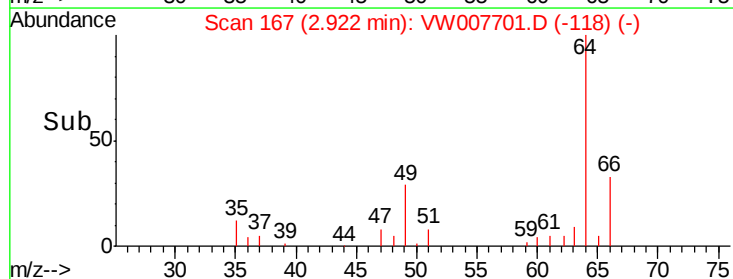
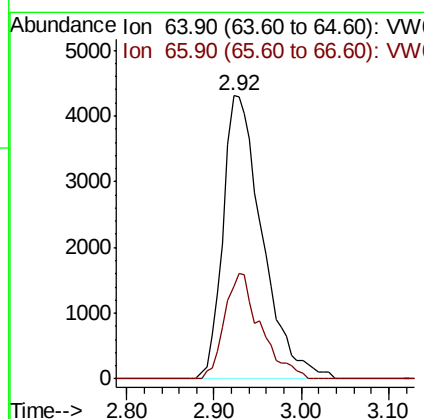
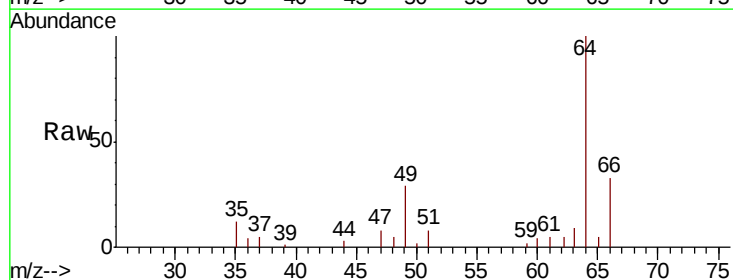
Acq: 19 Dec 2018 14:53

Tgt Ion: 64 Resp: 13418

Ion Ratio Lower Upper

64 100

66 32.8 26.2 39.4





#7

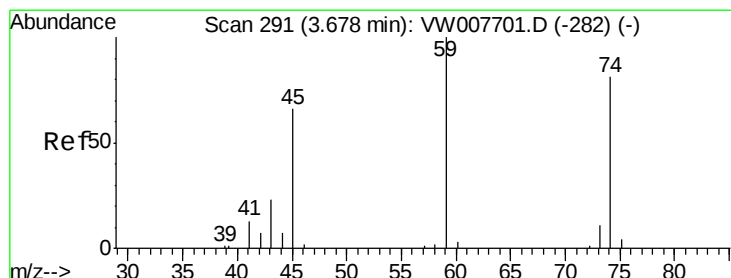
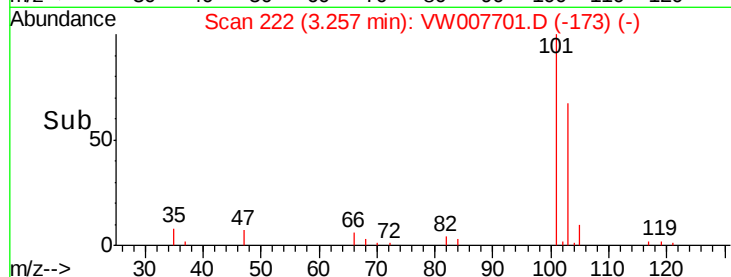
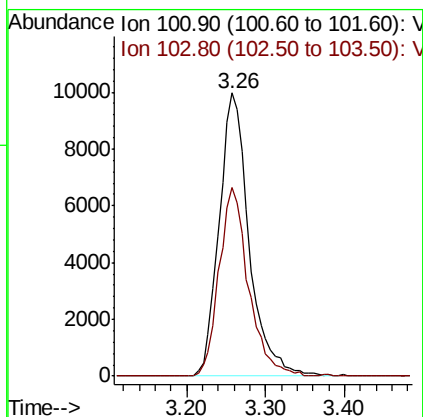
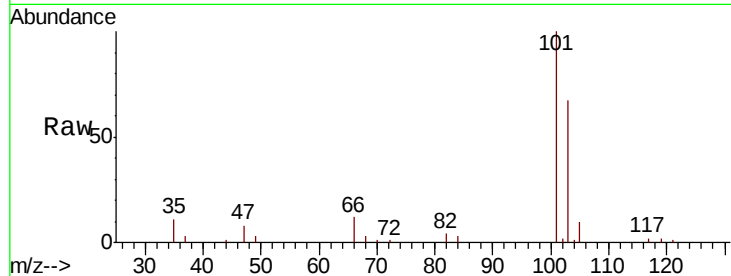
Trichlorofluoromethane  
 Concen: 47.963 ug/l  
 RT: 3.26 min Scan# 222  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 101     | 100  |       | 26386 |       |       |
| 103     | 66.8 | 53.4  | 80.2  |       |       |

Manual Integrations  
 APPROVED

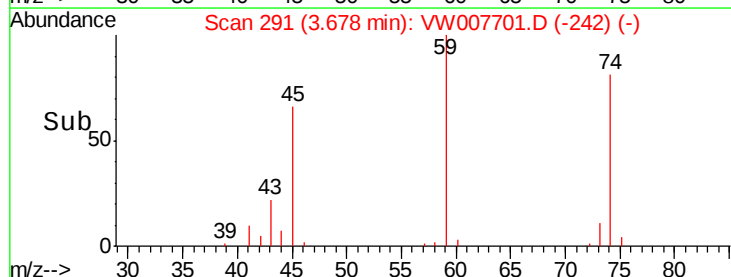
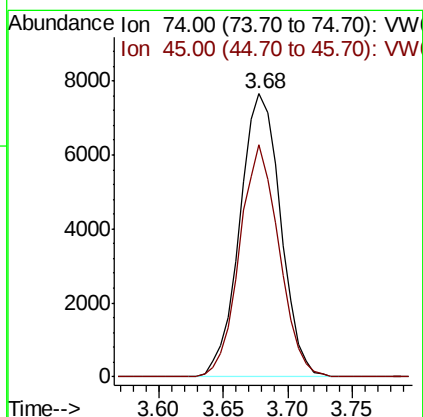
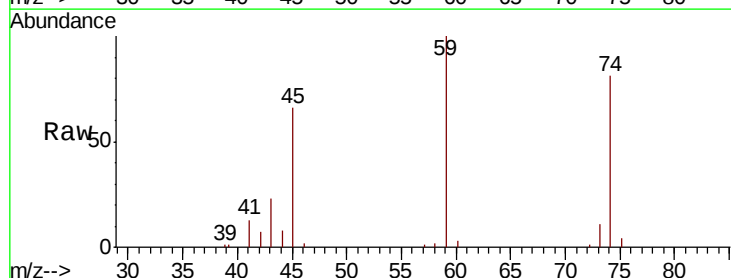
apatel  
 12/20/2018 11:19:39 AM

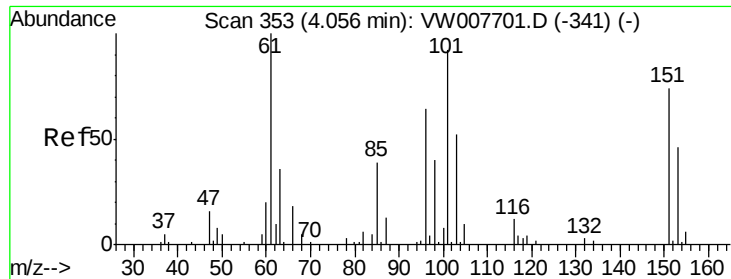


#8

Diethyl Ether  
 Concen: 50.033 ug/l  
 RT: 3.68 min Scan# 291  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 74      | 100  |       | 16859 |       |       |
| 45      | 78.7 | 39.4  | 118.1 |       |       |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.764 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

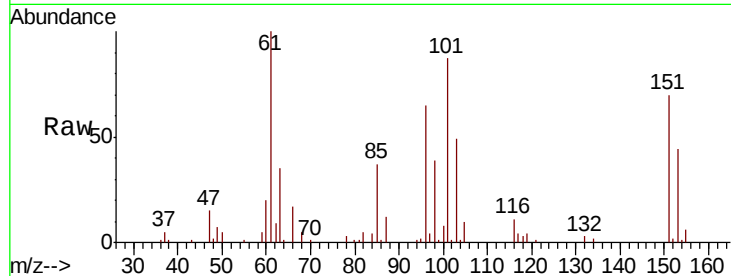
ClientSampleId :

VSTDICCC050

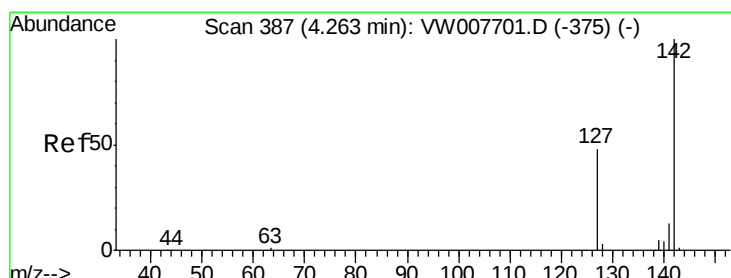
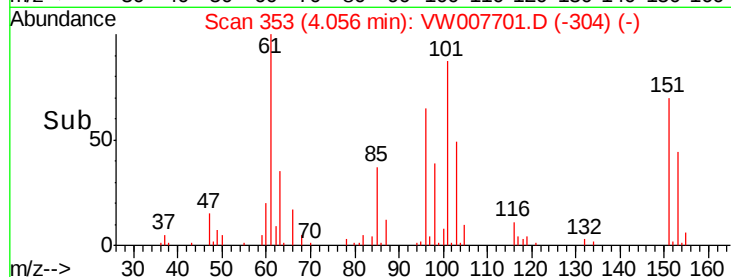
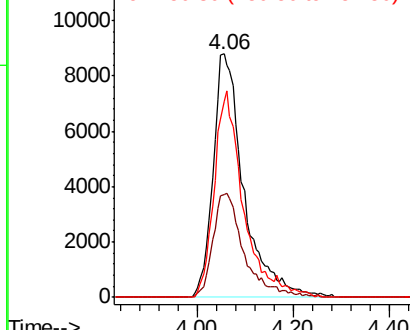
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 101   | Resp: | 39009 |
| Ion Ratio | Lower | Upper |       |
| 101       | 100   |       |       |
| 85        | 42.9  | 34.3  | 51.5  |
| 151       | 80.7  | 64.6  | 96.8  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 48.250 ug/l

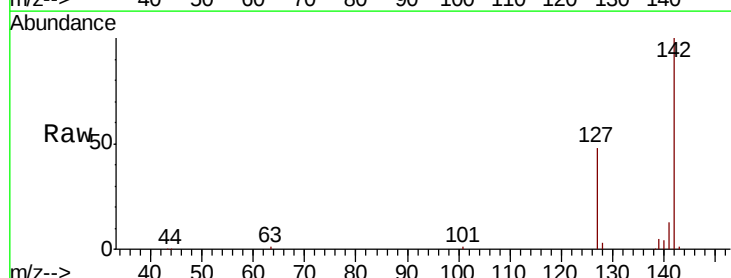
RT: 4.26 min Scan# 387

Delta R.T. 0.00 min

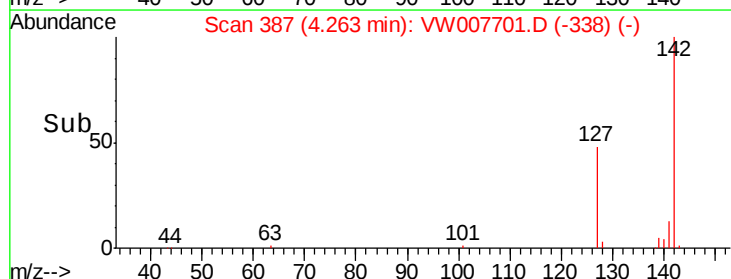
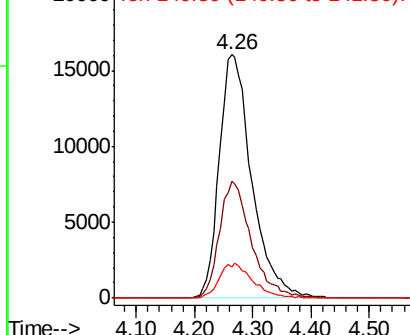
Lab File: VW007701.D

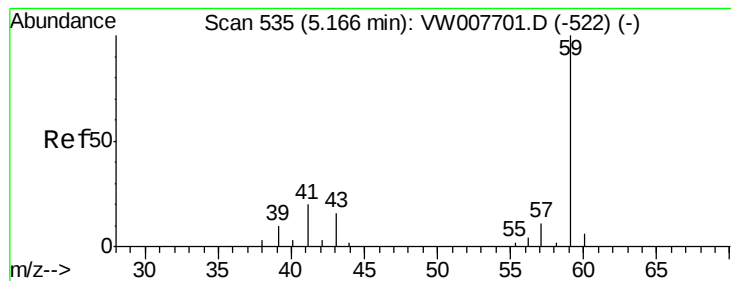
Acq: 19 Dec 2018 14:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 62168 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 47.1  | 37.7  | 56.5  |
| 141       | 14.4  | 11.5  | 17.3  |



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V





#11

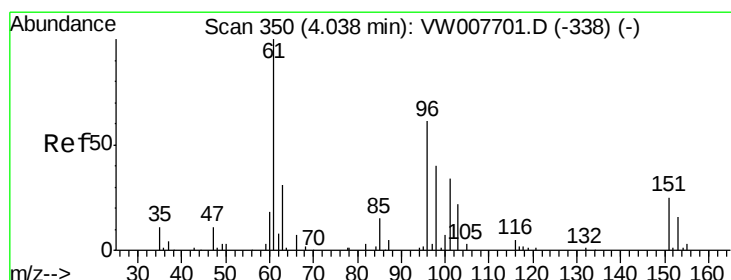
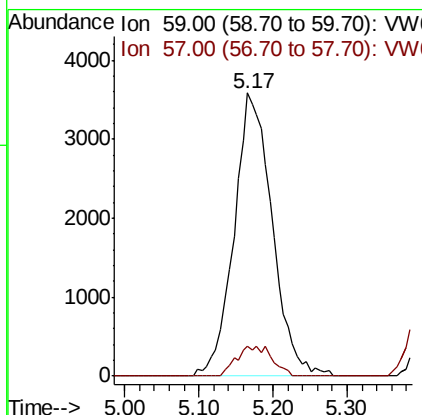
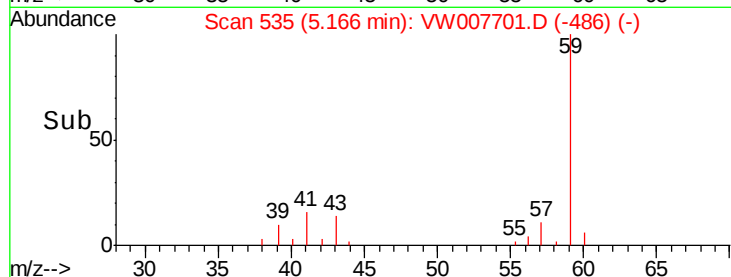
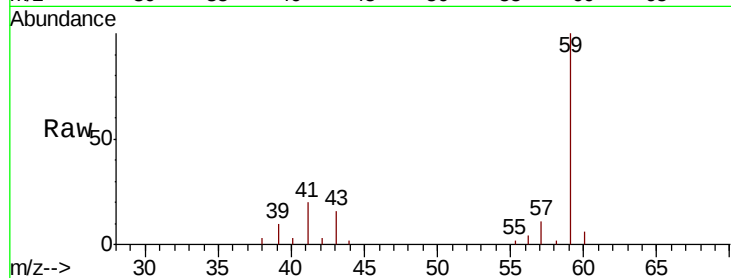
Tert butyl alcohol  
Concen: 228.589 ug/l  
RT: 5.17 min Scan# 535  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 9.8   | 7.8   | 11.8  |

Manual Integrations  
APPROVED

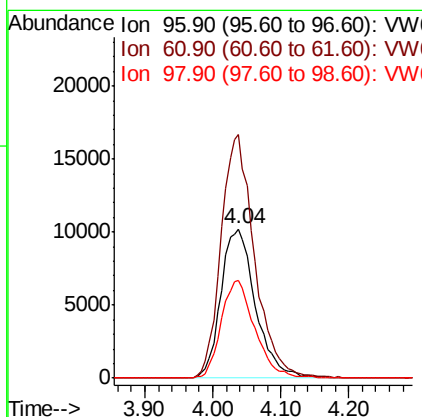
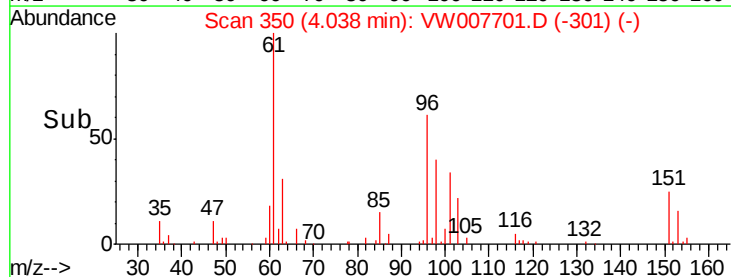
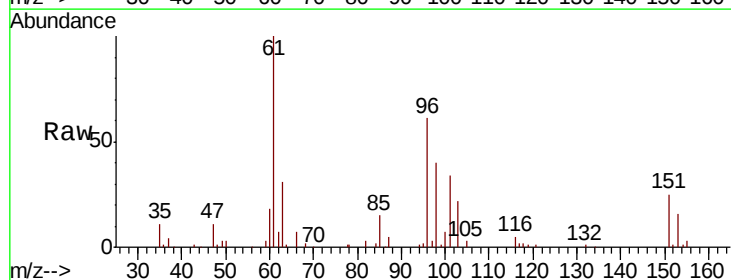
apatel  
12/20/2018 11:19:39 AM

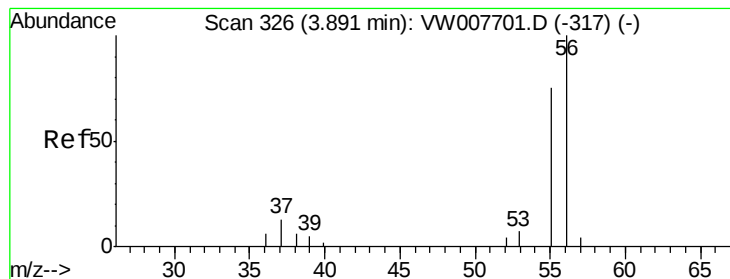


#12

1,1-Dichloroethene  
Concen: 47.963 ug/l  
RT: 4.04 min Scan# 350  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.2 | 130.6 | 195.8 |
| 98      | 65.4  | 52.3  | 78.5  |





#13

Acrolein

Concen: 226.544 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 10184

Ion Ratio Lower Upper

56 100

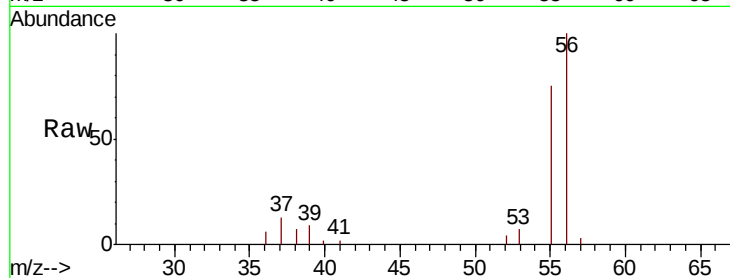
55 72.1 57.7 86.5

Manual Integrations

APPROVED

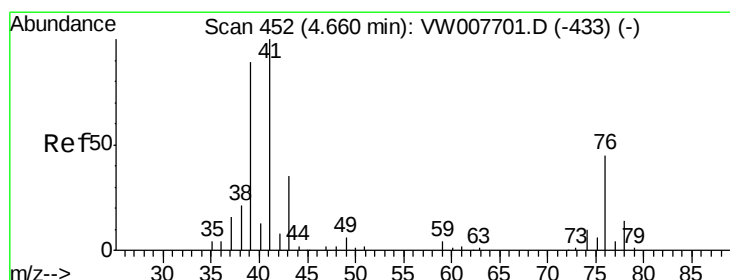
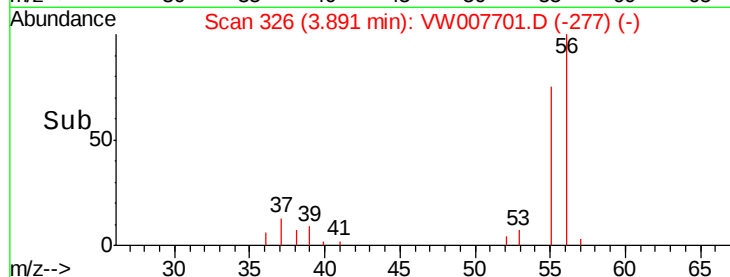
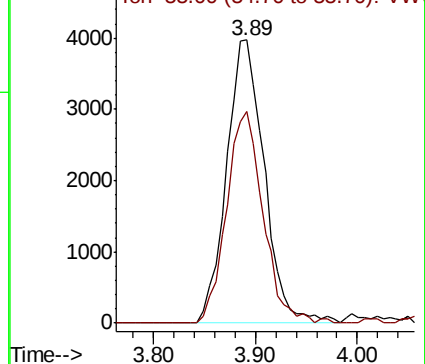
apatel

12/20/2018 11:19:39 AM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 47.504 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

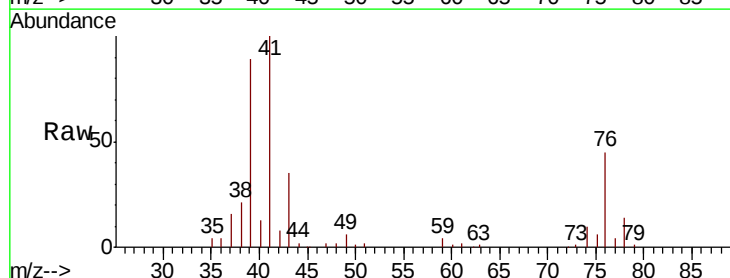
Tgt Ion: 41 Resp: 46737

Ion Ratio Lower Upper

41 100

39 86.9 69.5 104.3

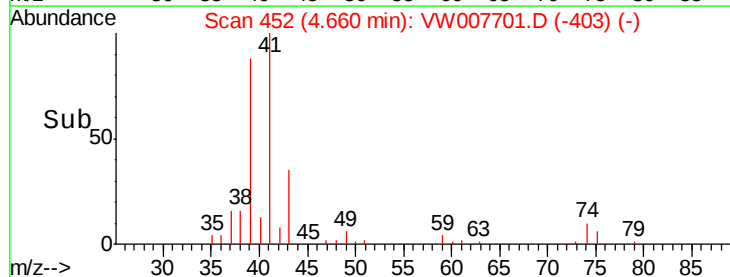
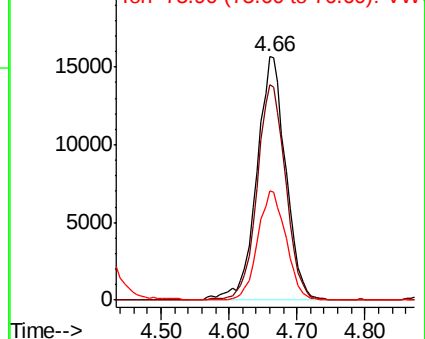
76 43.5 34.8 52.2



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





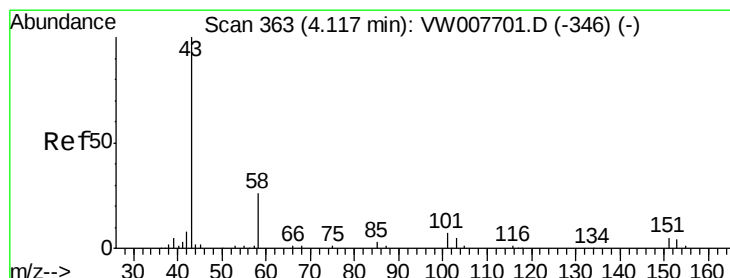
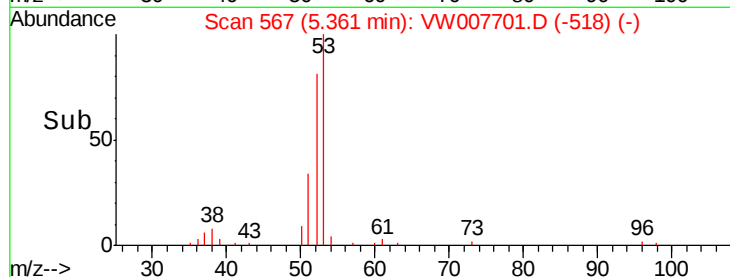
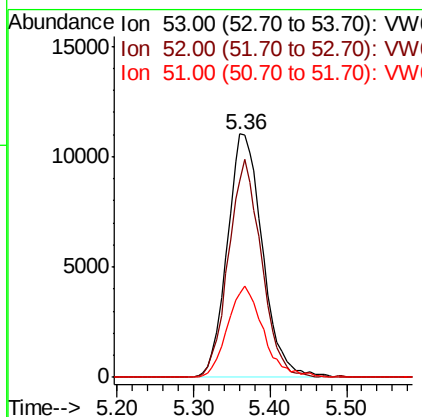
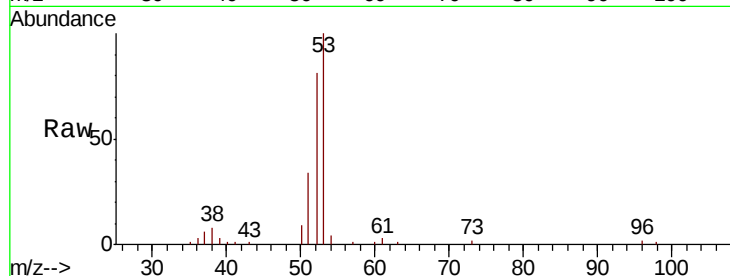
#15  
 Acrylonitrile  
 Concen: 244.407 ug/l  
 RT: 5.36 min Scan# 567  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 83.7  | 67.0  | 100.4 |
| 51      | 37.7  | 30.2  | 45.2  |

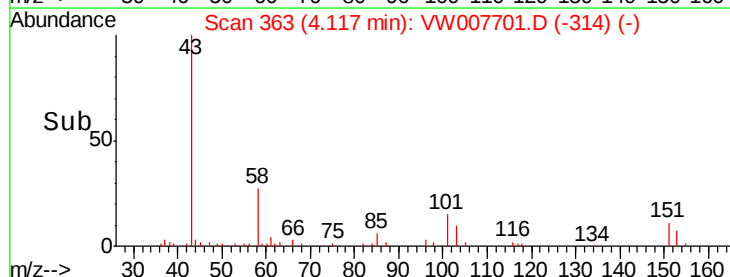
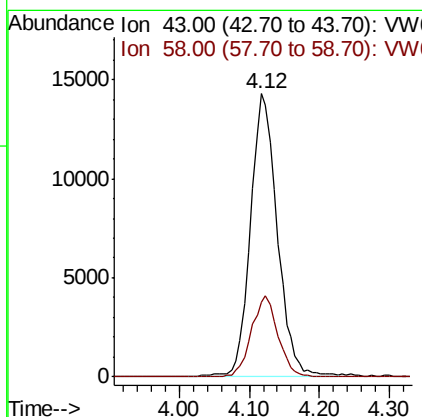
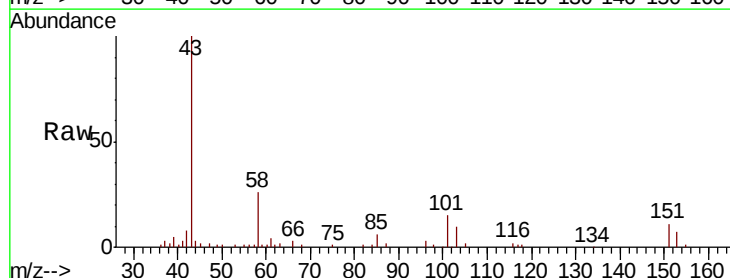
Manual Integrations  
 APPROVED

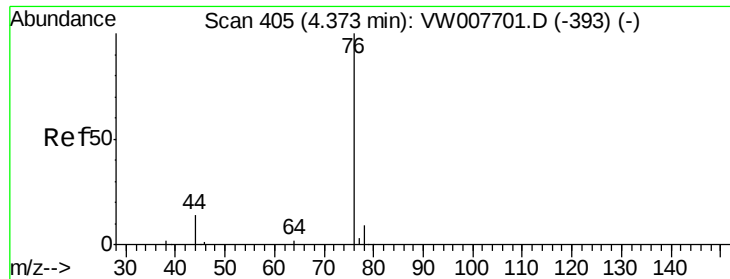
apatel  
 12/20/2018 11:19:39 AM



#16  
 Acetone  
 Concen: 245.220 ug/l  
 RT: 4.12 min Scan# 363  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 26.5  | 21.2  | 31.8  |





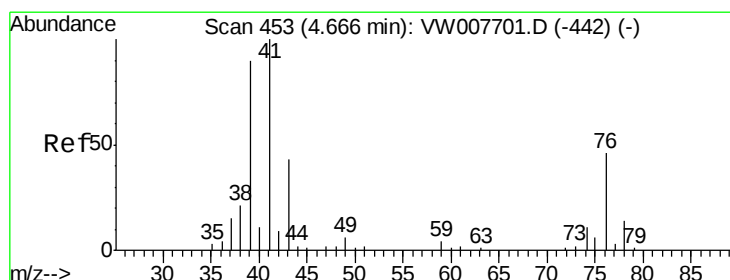
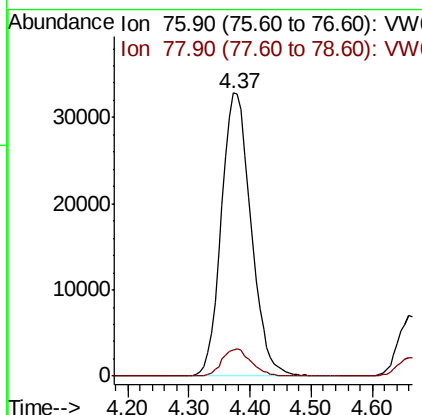
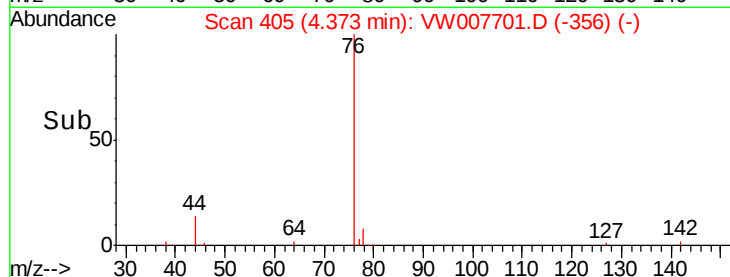
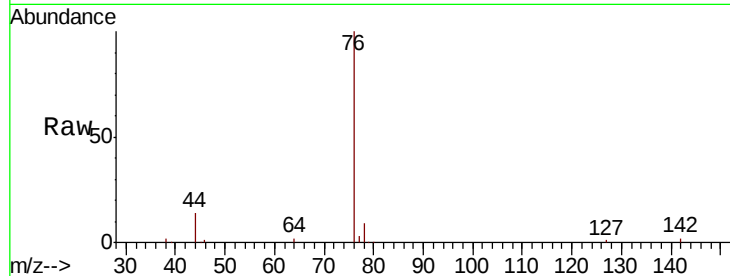
#17  
Carbon Disulfide  
Concen: 47.525 ug/l  
RT: 4.37 min Scan# 405  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.1   | 7.3   | 10.9  |

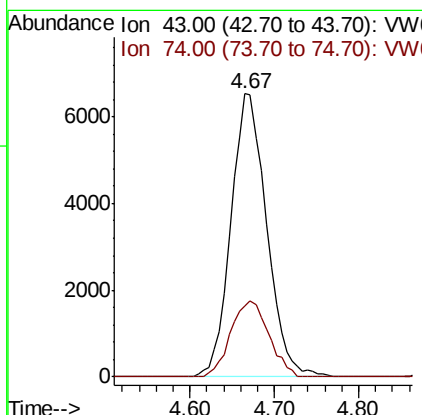
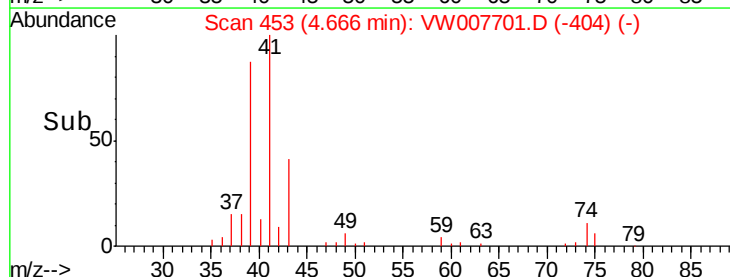
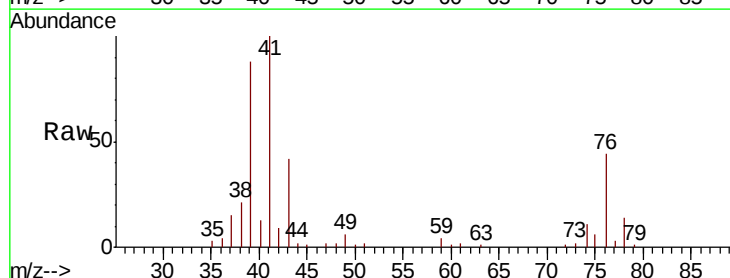
Manual Integrations  
APPROVED

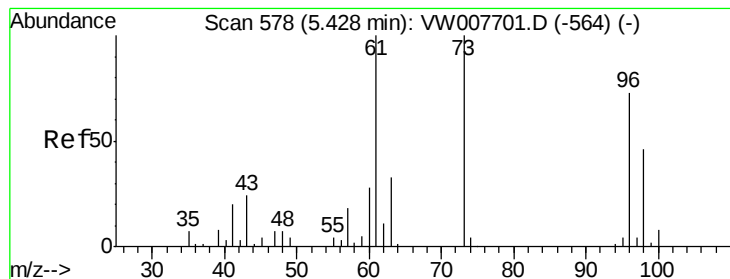
apatel  
12/20/2018 11:19:39 AM



#18  
Methyl Acetate  
Concen: 50.575 ug/l  
RT: 4.67 min Scan# 453  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 28.4  | 22.7  | 34.1  |





#19

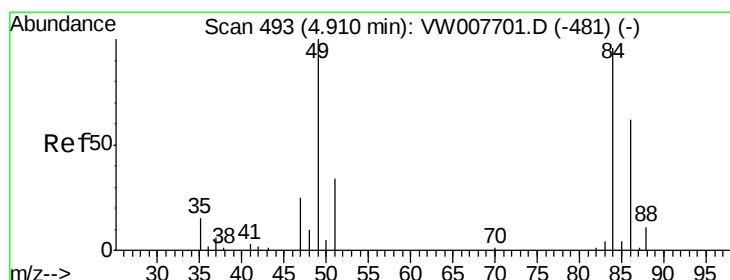
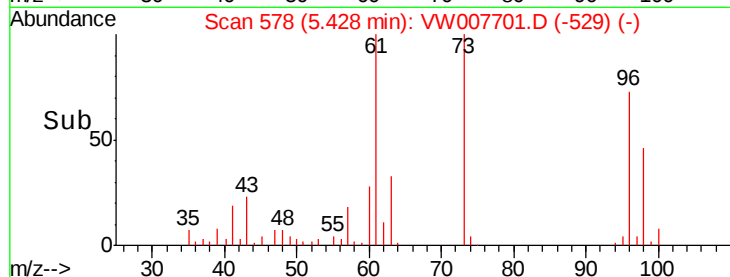
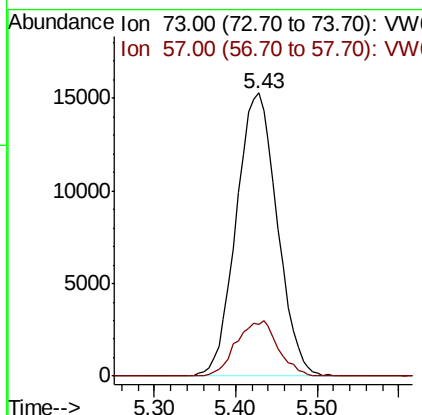
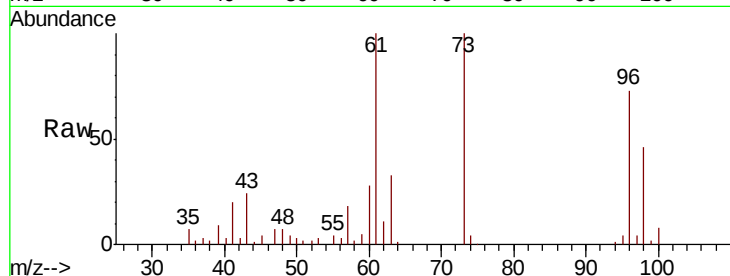
Methyl tert-butyl Ether  
 Concen: 49.426 ug/l  
 RT: 5.43 min Scan# 578  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 18.4  | 14.7  | 22.1  |

Manual Integrations  
 APPROVED

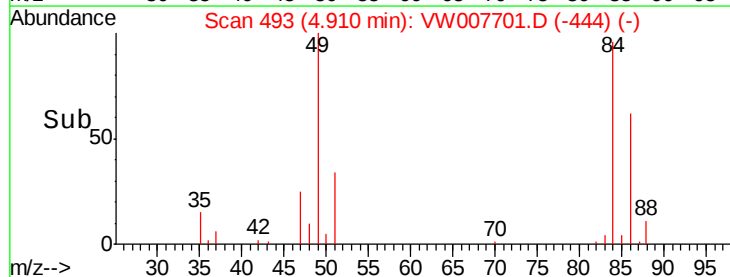
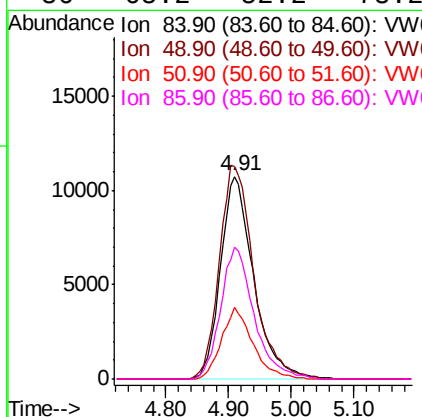
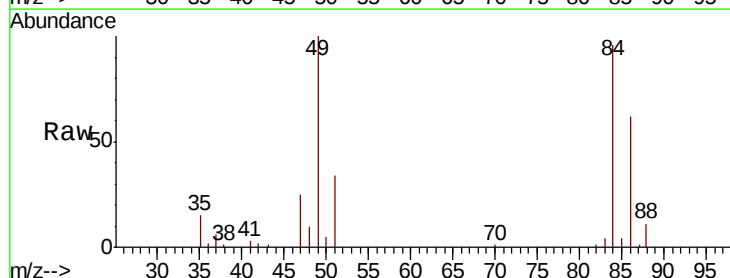
apatel  
 12/20/2018 11:19:39 AM

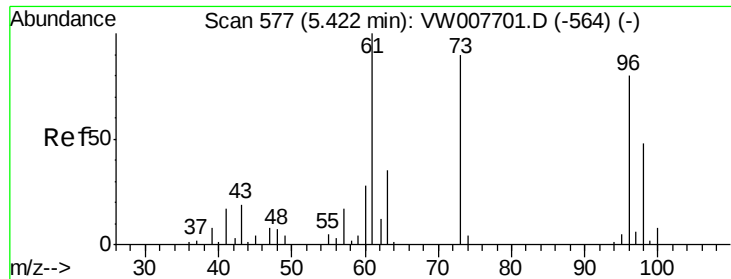


#20

Methylene Chloride  
 Concen: 41.871 ug/l  
 RT: 4.91 min Scan# 493  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 104.6 | 83.7  | 125.5 |
| 51      | 35.2  | 28.2  | 42.2  |
| 86      | 65.2  | 52.2  | 78.2  |





#21

trans-1,2-Dichloroethene

Concen: 46.961 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 96 Resp: 38749

Ion Ratio Lower Upper

96 100

61 125.1 100.1 150.1

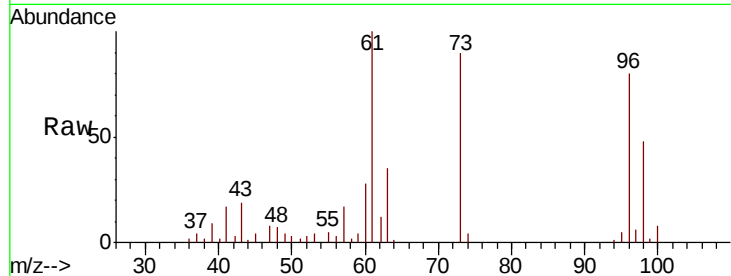
98 60.6 48.5 72.7

Manual Integrations

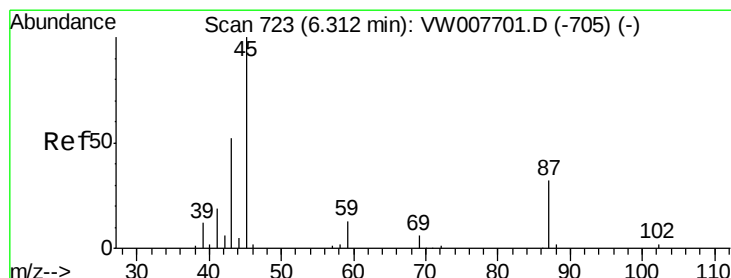
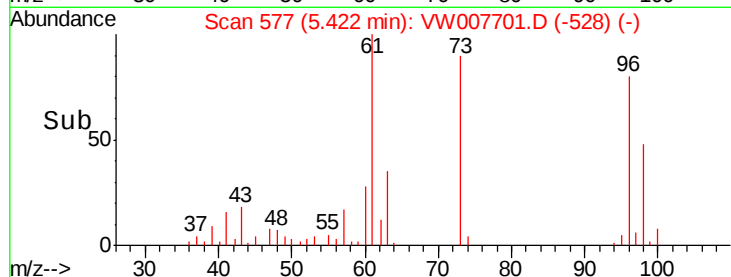
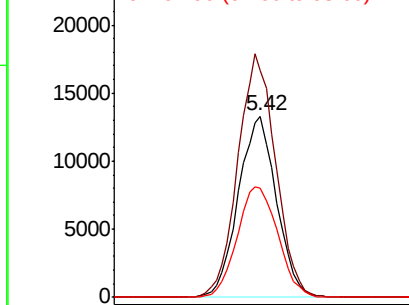
APPROVED

apatel

12/20/2018 11:19:39 AM



Abundance Ion 95.90 (95.60 to 96.60): VW  
Ion 60.90 (60.60 to 61.60): VW  
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 49.159 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Tgt Ion: 45 Resp: 90562

Ion Ratio Lower Upper

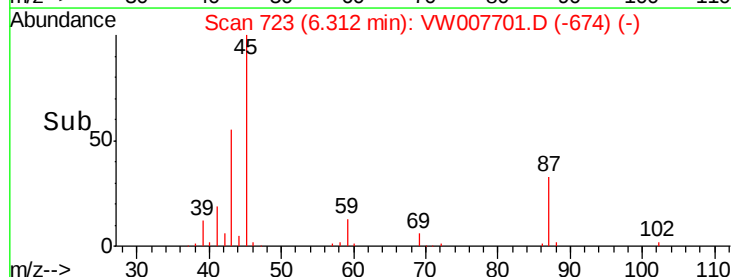
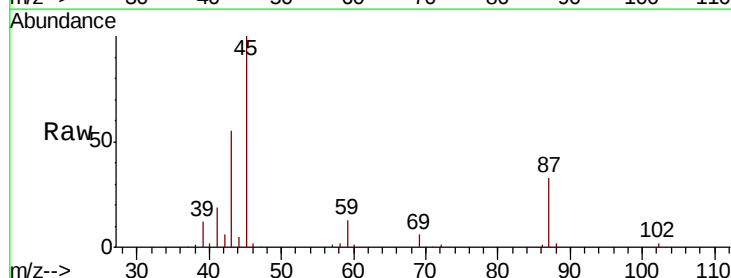
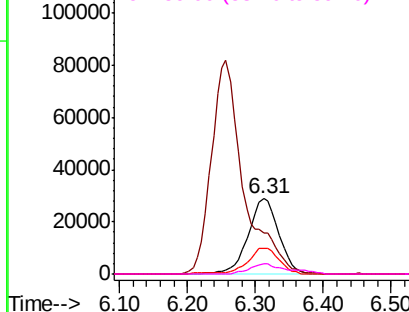
45 100

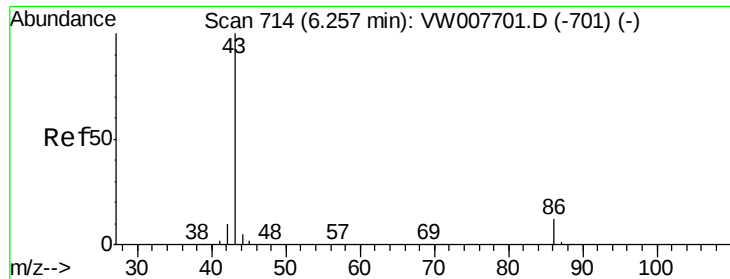
43 54.6 43.7 65.5

87 33.3 26.6 40.0

59 12.7 10.2 15.2

Abundance Ion 45.00 (44.70 to 45.70): VW  
Ion 43.00 (42.70 to 43.70): VW  
Ion 87.00 (86.70 to 87.70): VW  
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 246.537 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 269838

Ion Ratio Lower Upper

43 100

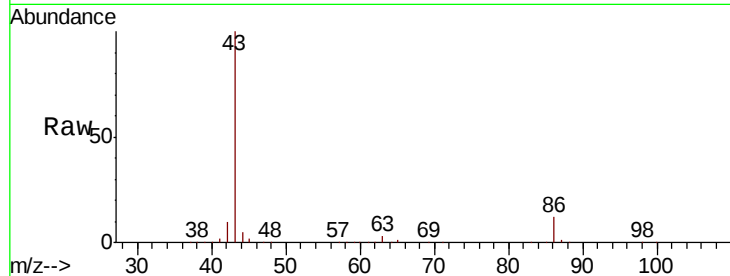
86 12.0 9.6 14.4

Manual Integrations

APPROVED

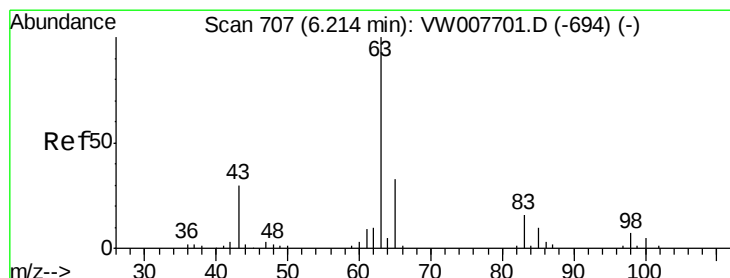
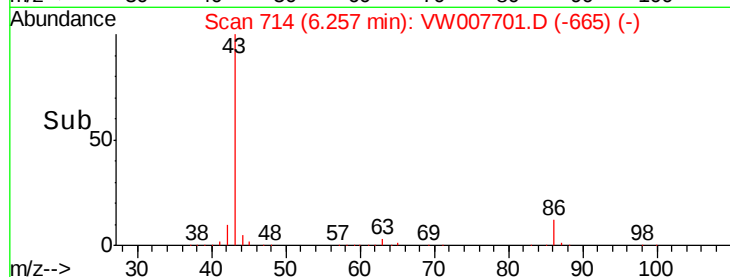
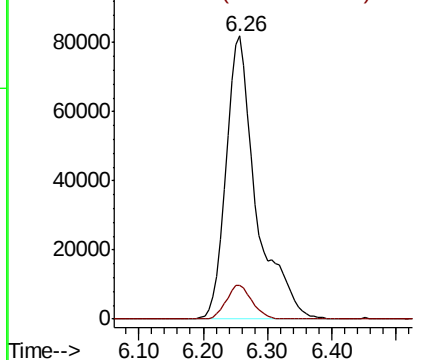
apatel

12/20/2018 11:19:39 AM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 47.335 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

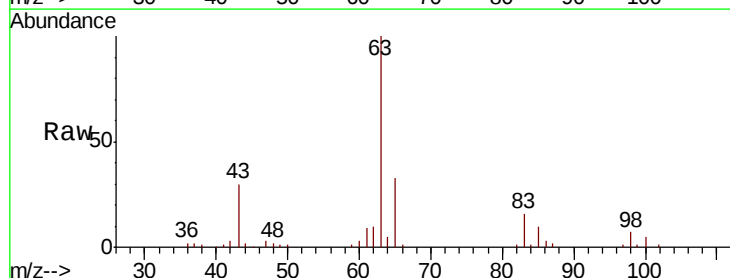
Tgt Ion: 63 Resp: 64150

Ion Ratio Lower Upper

63 100

98 7.3 3.6 10.9

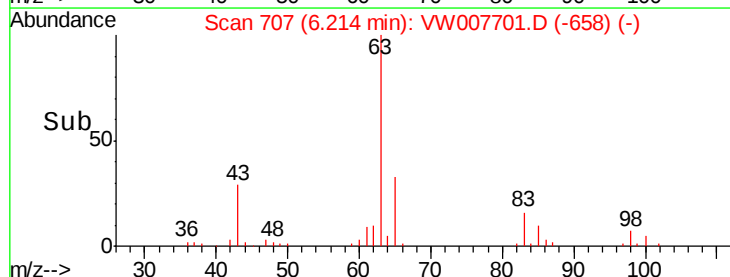
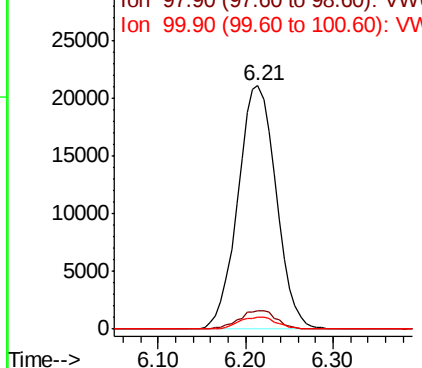
100 5.0 2.5 7.5

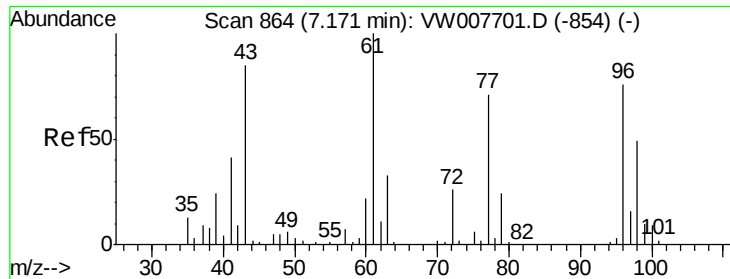


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 240.566 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 43977

Ion Ratio Lower Upper

43 100

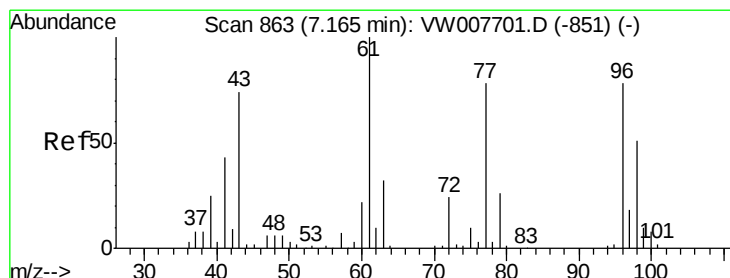
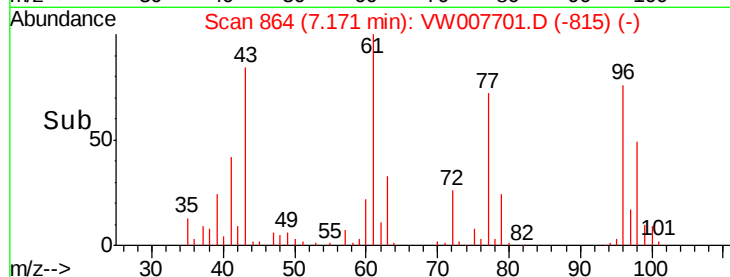
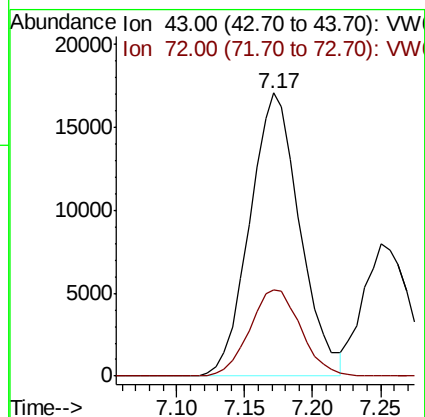
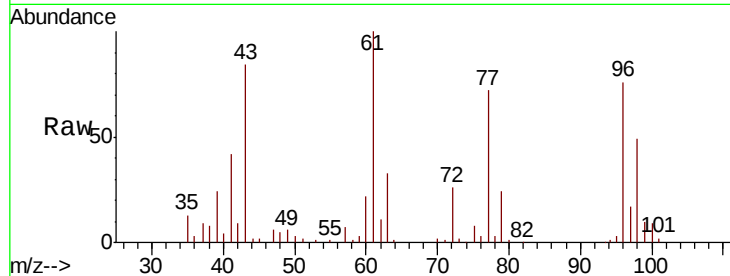
72 30.6 24.5 36.7

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



#26

2,2-Dichloropropane

Concen: 46.643 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW007701.D

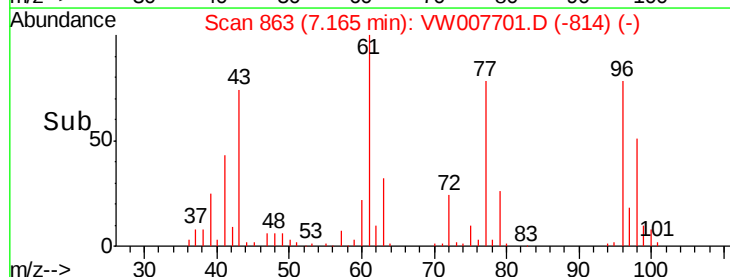
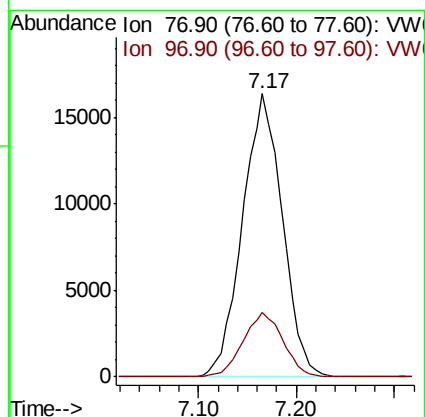
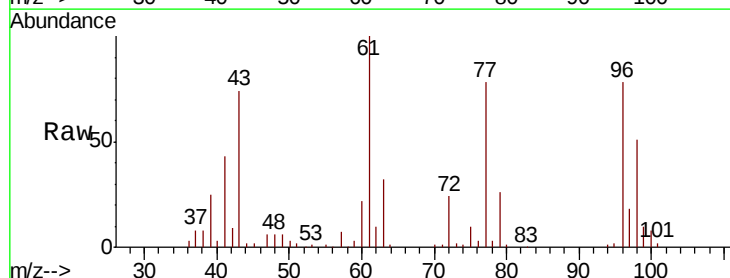
Acq: 19 Dec 2018 14:53

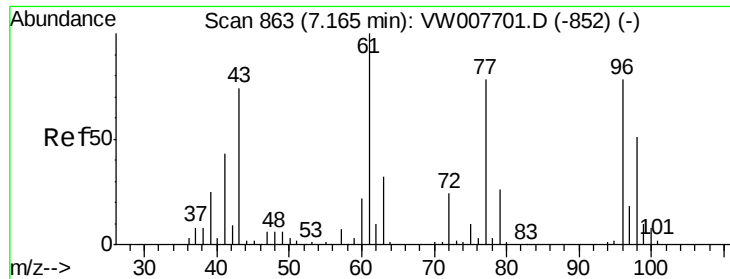
Tgt Ion: 77 Resp: 46257

Ion Ratio Lower Upper

77 100

97 22.6 11.3 33.9





#27

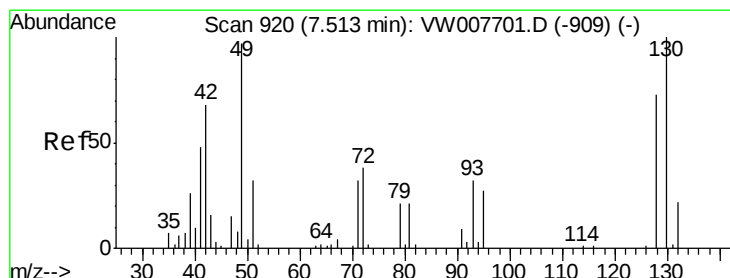
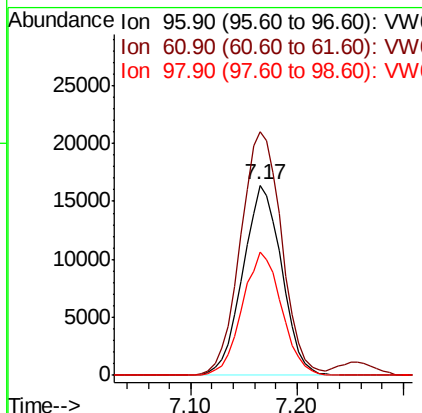
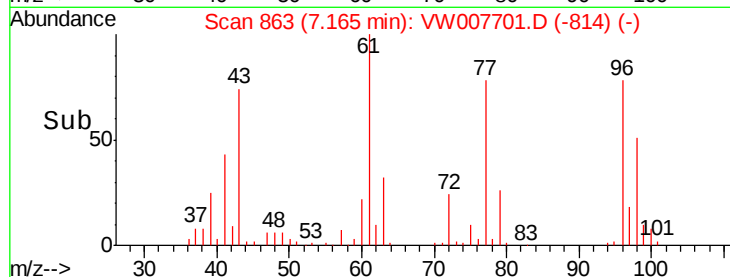
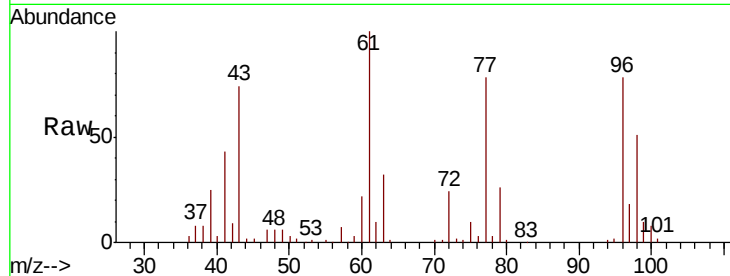
cis-1,2-Dichloroethene  
Concen: 47.785 ug/l  
RT: 7.17 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 135.8 | 0.0   | 271.6 |
| 98      | 65.6  | 0.0   | 131.2 |

Manual Integrations  
APPROVED

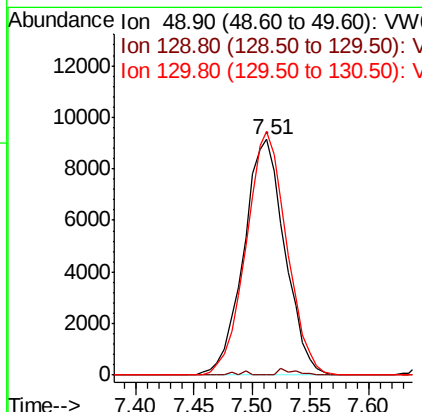
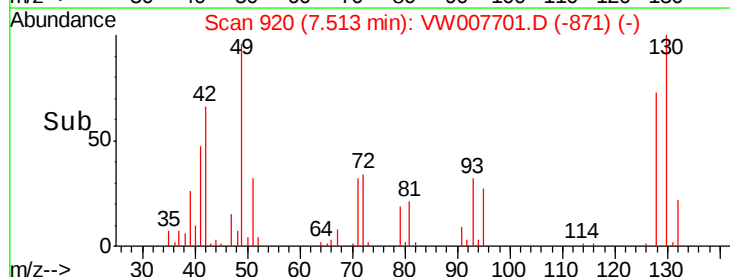
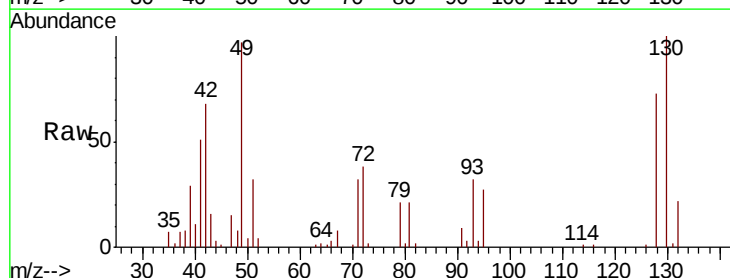
apatel  
12/20/2018 11:19:39 AM

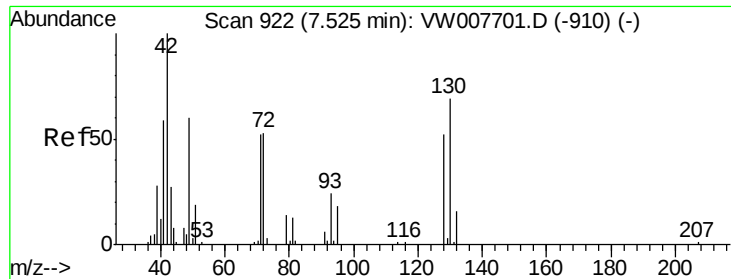


#28

Bromochloromethane  
Concen: 48.427 ug/l  
RT: 7.51 min Scan# 920  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 1.1   | 0.0   | 2.2   |
| 130     | 101.9 | 81.5  | 122.3 |





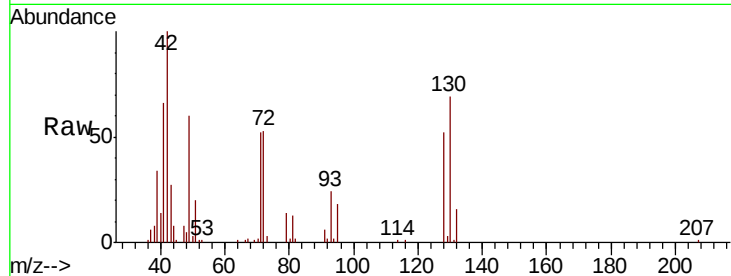
#29  
Tetrahydrofuran  
Concen: 247.897 ug/l  
RT: 7.52 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

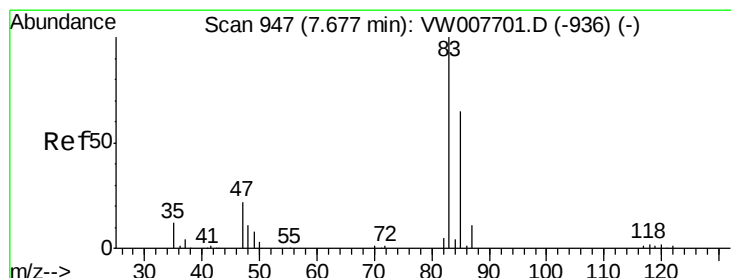
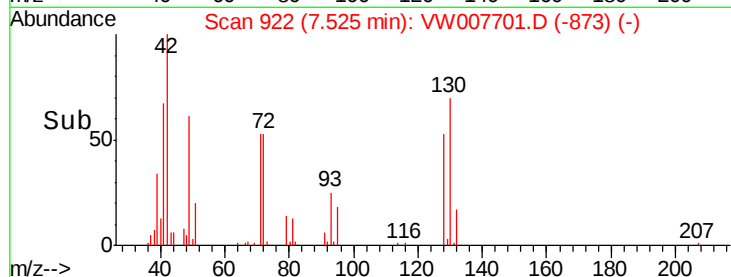
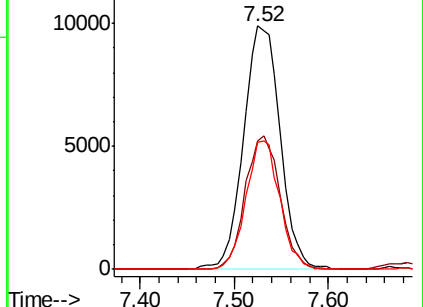
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 52.1  | 41.7  | 62.5  |
| 71      | 48.8  | 39.0  | 58.6  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM

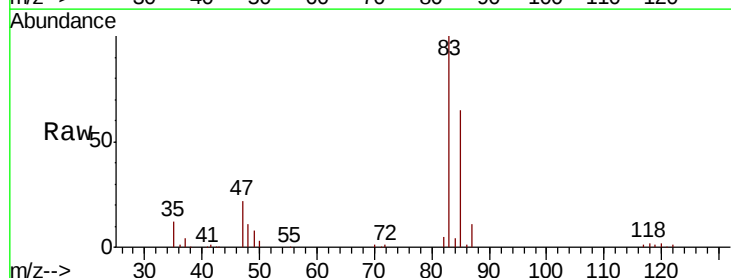


Abundance Ion 42.00 (41.70 to 42.70): VW  
Ion 72.00 (71.70 to 72.70): VW  
Ion 71.00 (70.70 to 71.70): VW

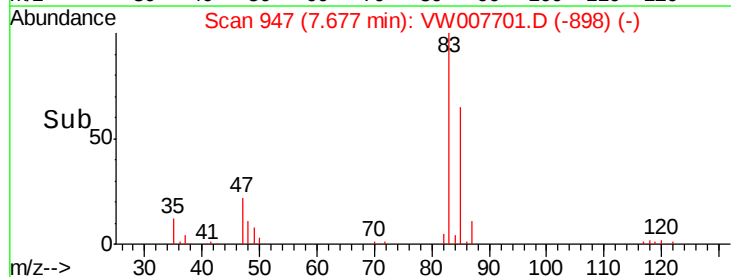
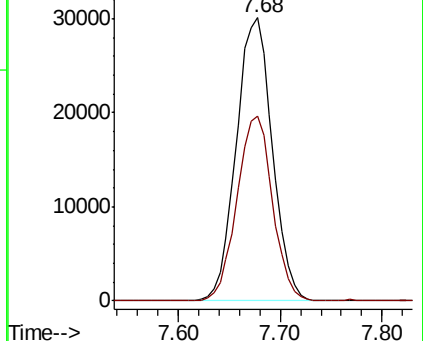


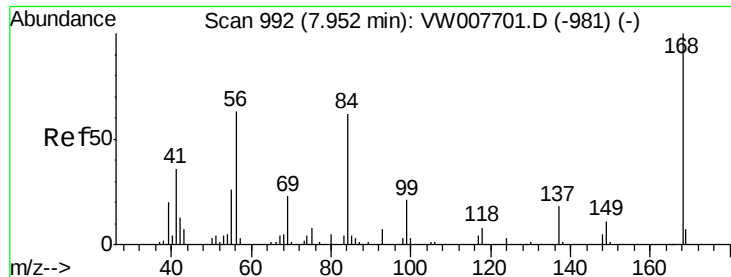
#30  
Chloroform  
Concen: 48.069 ug/l  
RT: 7.68 min Scan# 947  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.2  | 52.2  | 78.2  |



Abundance Ion 82.90 (82.60 to 83.60): VW  
Ion 84.90 (84.60 to 85.60): VW





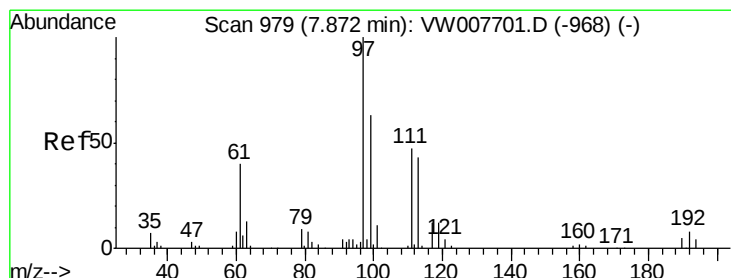
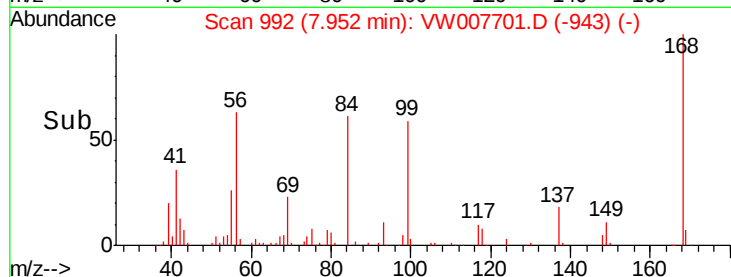
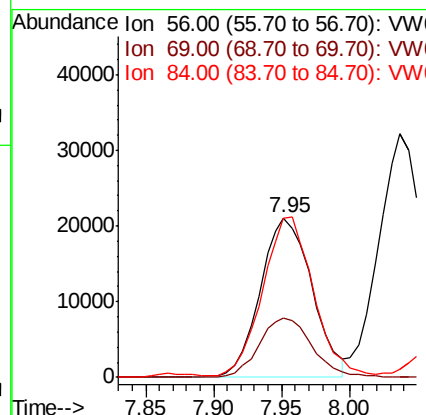
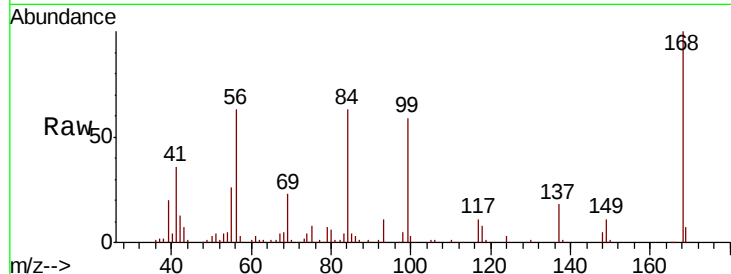
#31  
Cyclohexane  
Concen: 44.919 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 37.1  | 29.7  | 44.5  |
| 84      | 98.6  | 78.9  | 118.3 |

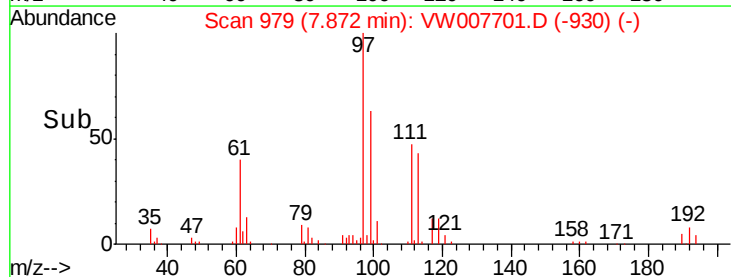
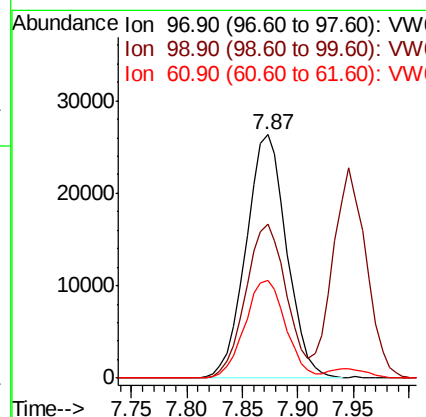
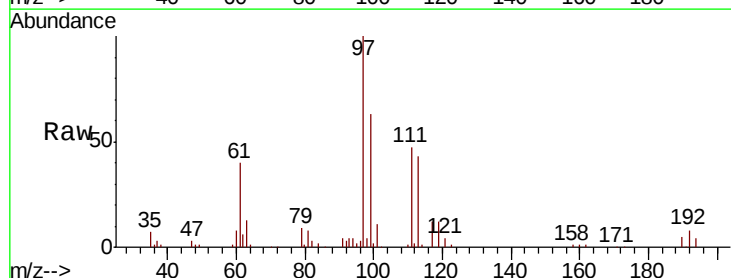
Manual Integrations  
APPROVED

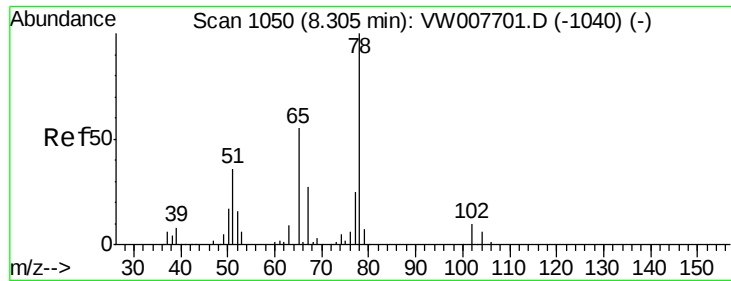
apatel  
12/20/2018 11:19:39 AM



#32  
1,1,1-Trichloroethane  
Concen: 47.870 ug/l  
RT: 7.87 min Scan# 979  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 63.3  | 50.6  | 76.0  |
| 61      | 40.4  | 32.3  | 48.5  |





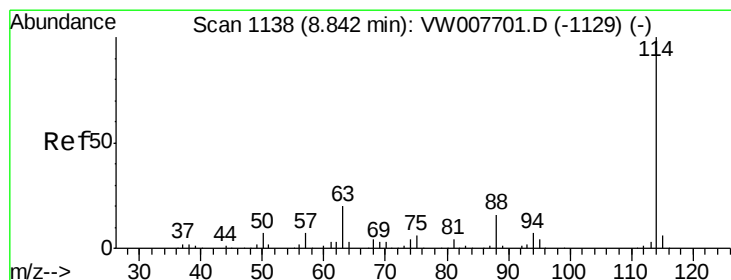
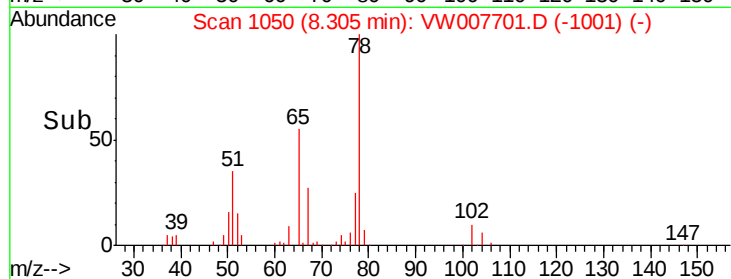
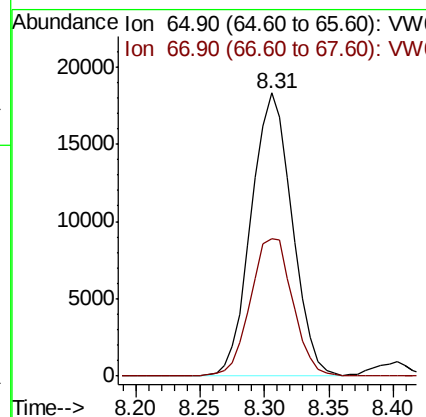
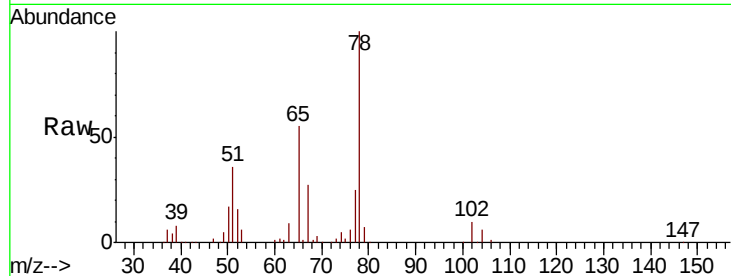
#33  
 1,2-Dichloroethane-d4  
 Concen: 48.262 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 65      | 100   | 40224 |       |       |
| 67      | 50.3  | 0.0   | 100.6 |       |

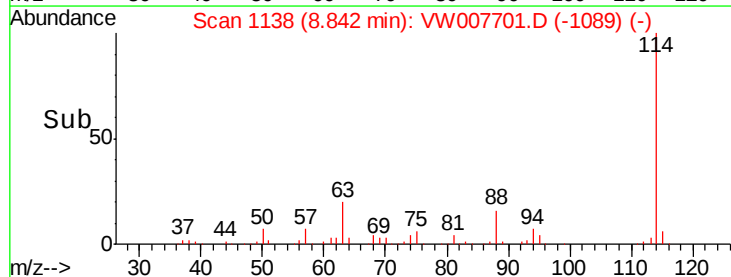
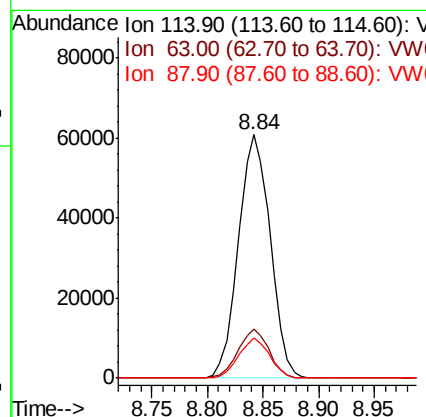
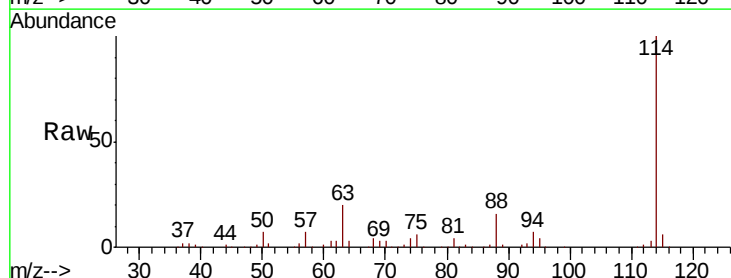
Manual Integrations  
 APPROVED

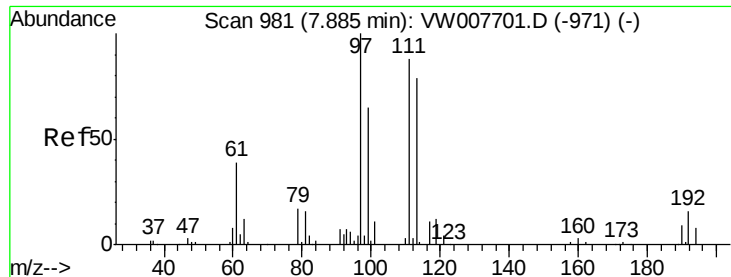
apatel  
 12/20/2018 11:19:39 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 120499 |       |       |
| 63      | 20.0  | 0.0    | 40.0  |       |
| 88      | 16.3  | 0.0    | 32.6  |       |





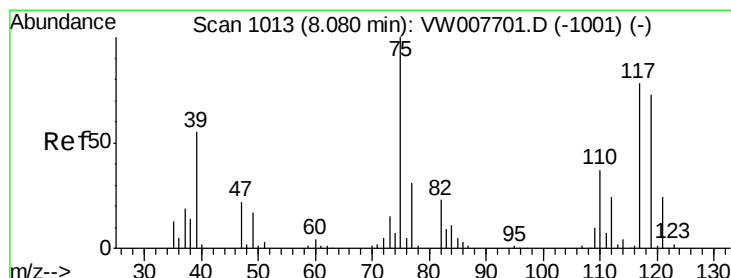
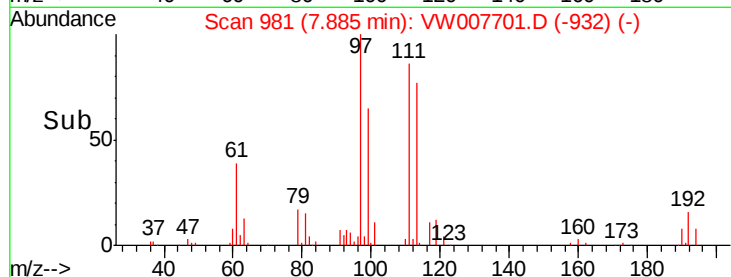
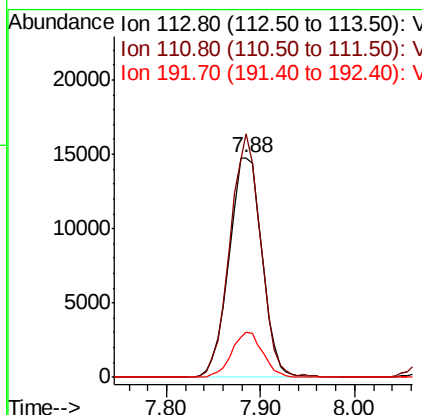
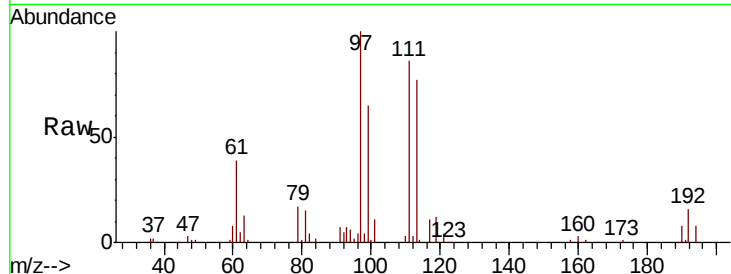
#35  
 Dibromofluoromethane  
 Concen: 49.015 ug/l  
 RT: 7.88 min Scan# 981  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 113     | 100   | 36031 |       |       |
| 111     | 103.3 | 82.6  | 124.0 |       |
| 192     | 19.4  | 15.5  | 23.3  |       |

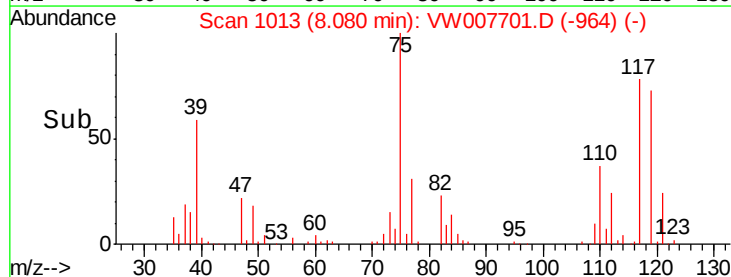
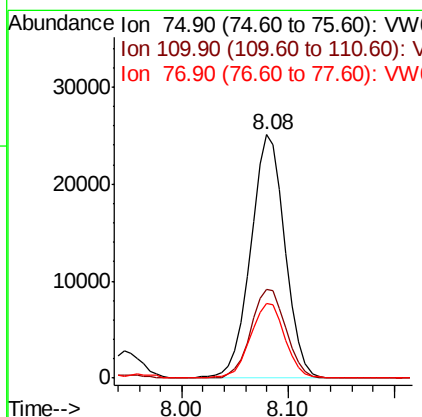
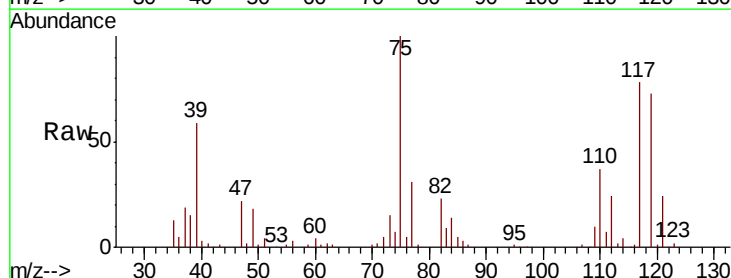
Manual Integrations  
 APPROVED

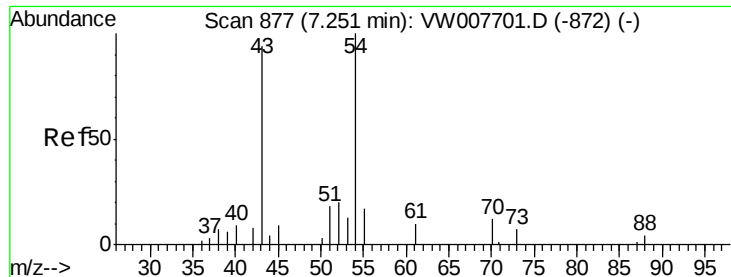
apatel  
 12/20/2018 11:19:39 AM



#36  
 1,1-Dichloropropene  
 Concen: 48.692 ug/l  
 RT: 8.08 min Scan# 1013  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 75      | 100   | 56630 |       |       |
| 110     | 37.2  | 18.6  | 55.8  |       |
| 77      | 31.2  | 25.0  | 37.4  |       |





#37

Ethyl Acetate

Concen: 49.529 ug/l

RT: 7.25 min Scan# 877

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

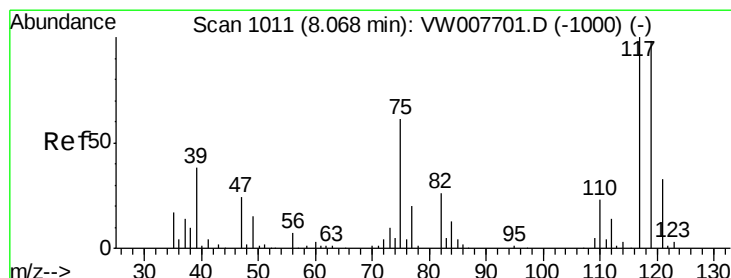
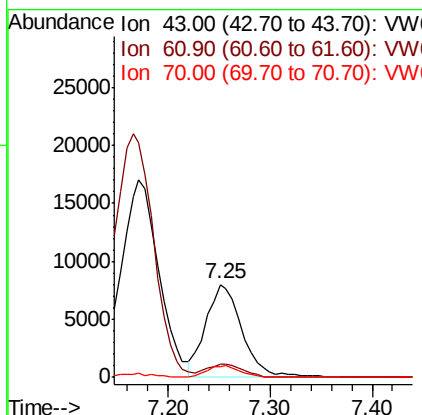
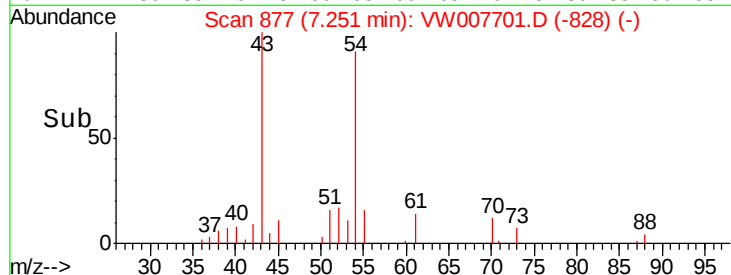
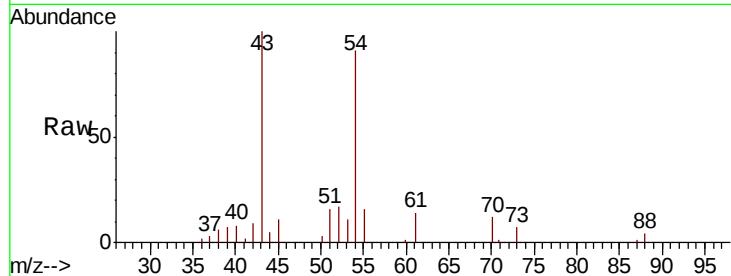
ClientSampleId :

VSTDICCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 19880 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 14.0  | 11.2  | 16.8  |
| 70       | 11.6  | 9.3   | 13.9  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#38

Carbon Tetrachloride

Concen: 48.849 ug/l

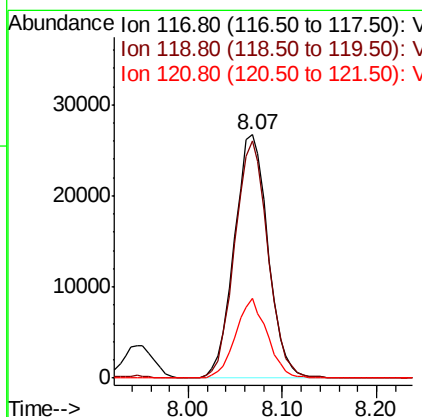
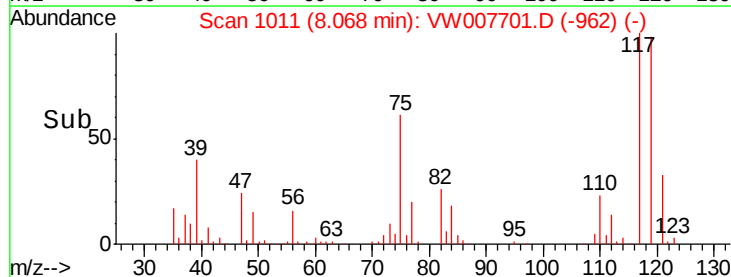
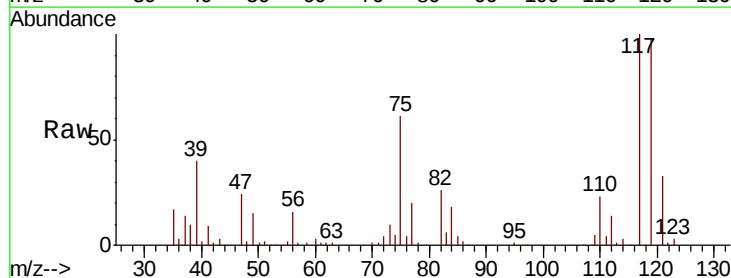
RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 66908 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 97.7  | 78.2  | 117.2 |
| 121      | 32.6  | 26.1  | 39.1  |





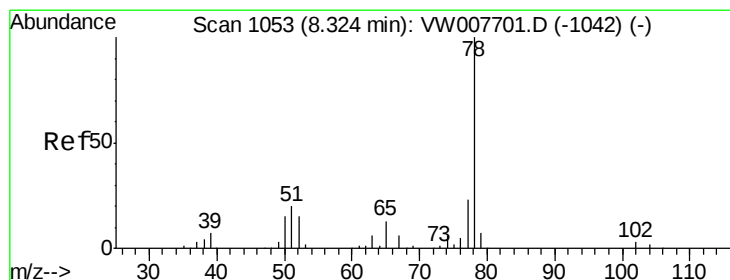
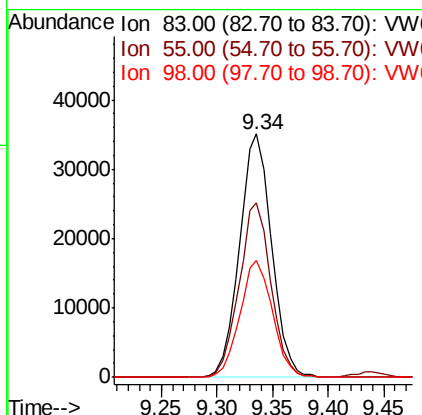
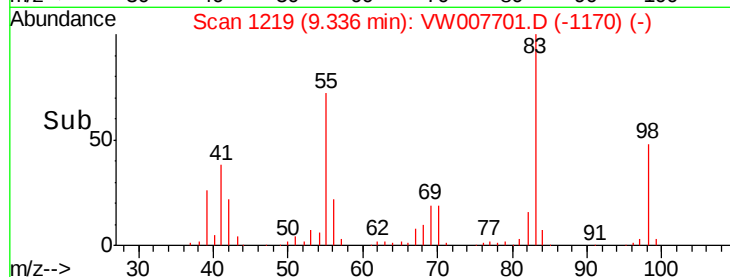
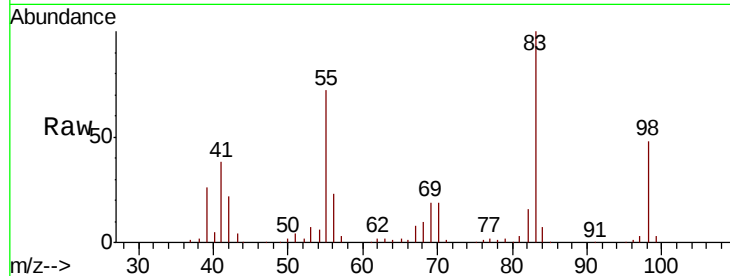
#39  
Methvlcvclohexane  
Concen: 48.594 ug/l  
RT: 9.34 min Scan# 1219  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 71.5  | 57.2  | 85.8  |
| 98      | 48.3  | 38.6  | 58.0  |

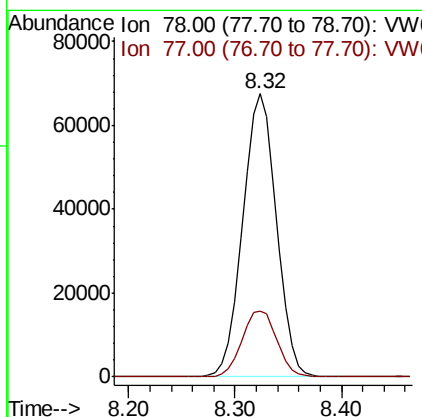
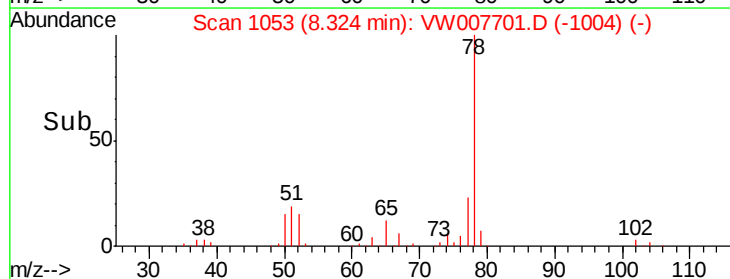
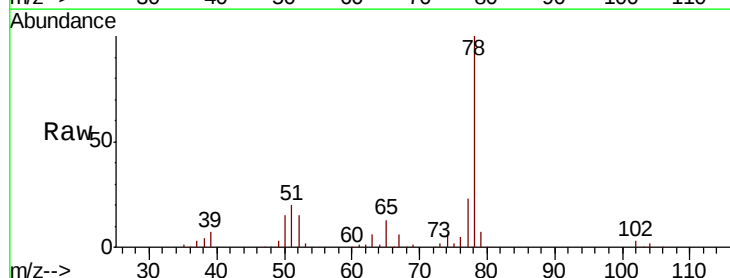
Manual Integrations  
APPROVED

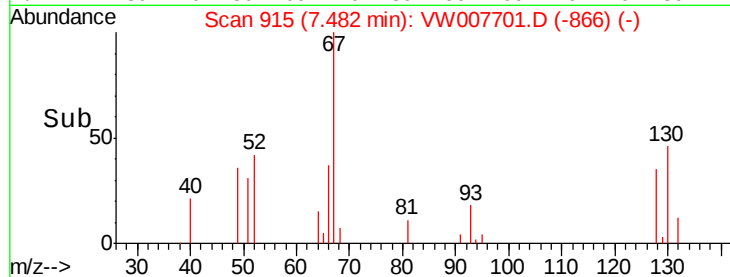
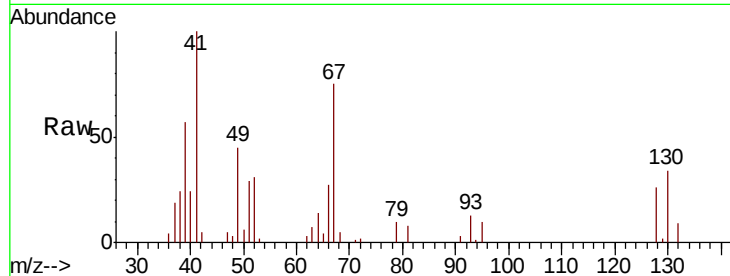
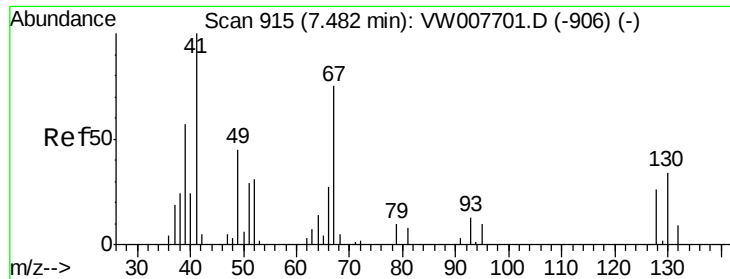
apatel  
12/20/2018 11:19:39 AM



#40  
Benzene  
Concen: 48.313 ug/l  
RT: 8.32 min Scan# 1053  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.4  | 18.7  | 28.1  |





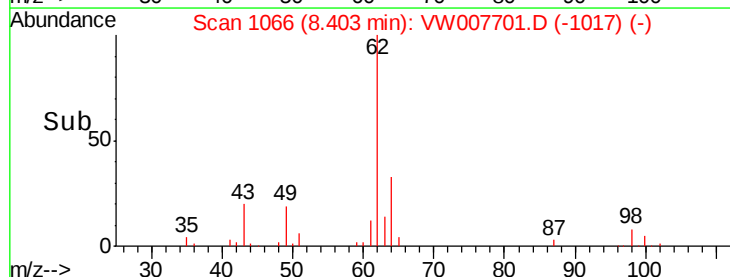
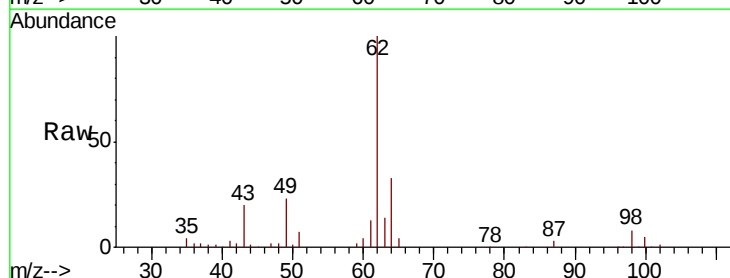
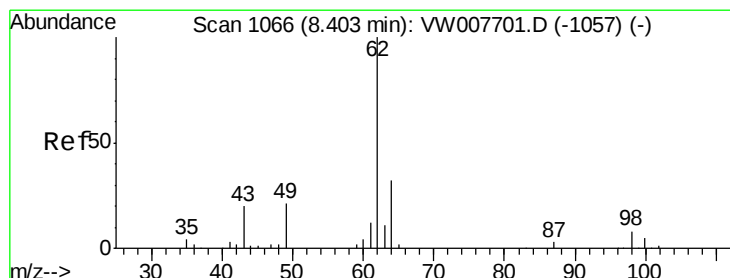
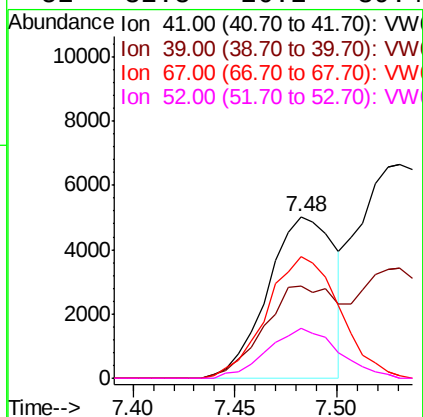
#41  
Methacrylonitrile  
Concen: 50.429 ug/l  
RT: 7.48 min Scan# 915  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 67.8  | 54.2  | 81.4  |
| 67      | 82.1  | 65.7  | 98.5  |
| 52      | 32.8  | 26.2  | 39.4  |

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

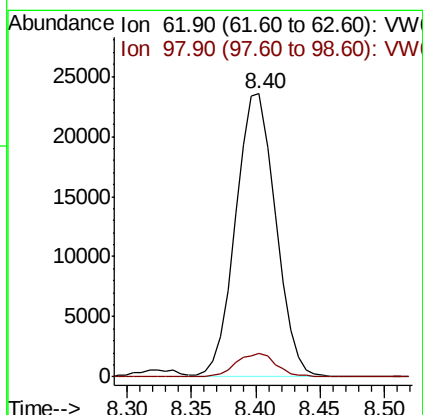
Manual Integrations  
APPROVED

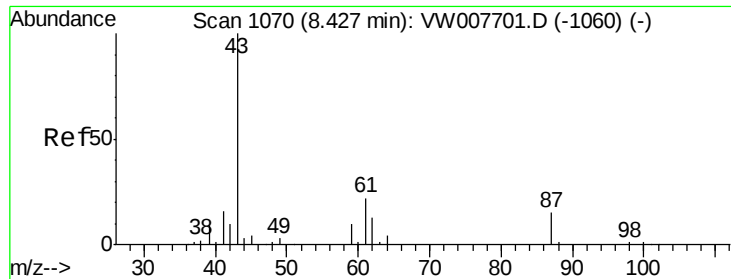
apatel  
12/20/2018 11:19:39 AM



#42  
1,2-Dichloroethane  
Concen: 48.930 ug/l  
RT: 8.40 min Scan# 1066  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 8.3   | 0.0   | 16.6  |





#43

Isopropyl Acetate

Concen: 49.934 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

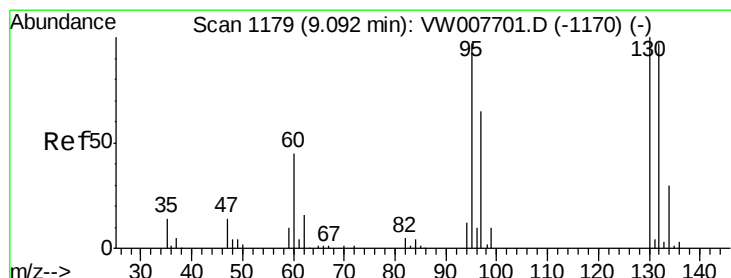
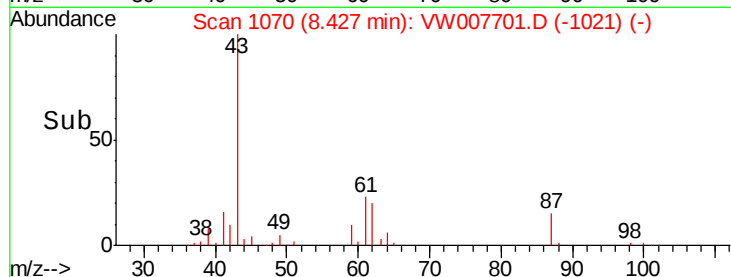
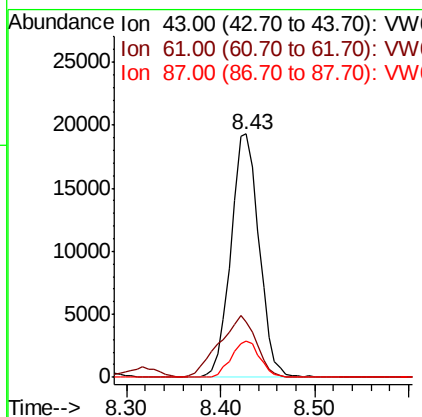
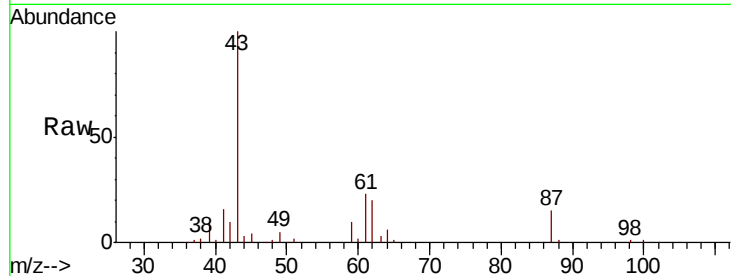
ClientSampleId :

VSTDICCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 40154 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 32.9  | 26.3  | 39.5  |
| 87       | 15.0  | 12.0  | 18.0  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#44

Trichloroethene

Concen: 47.895 ug/l

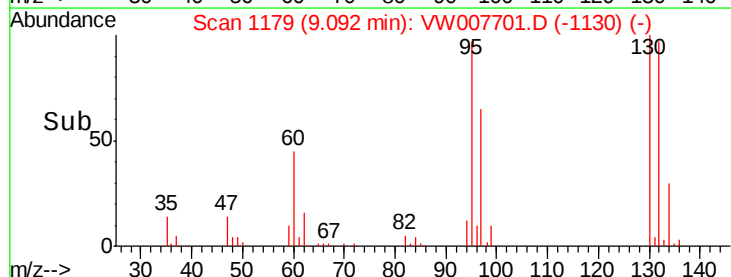
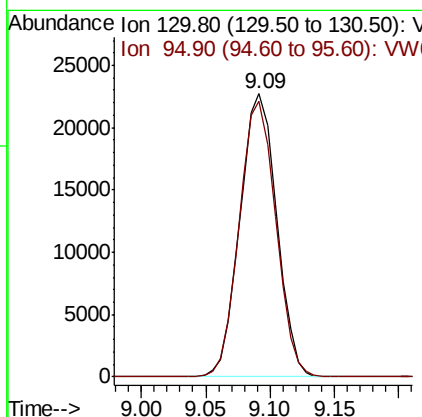
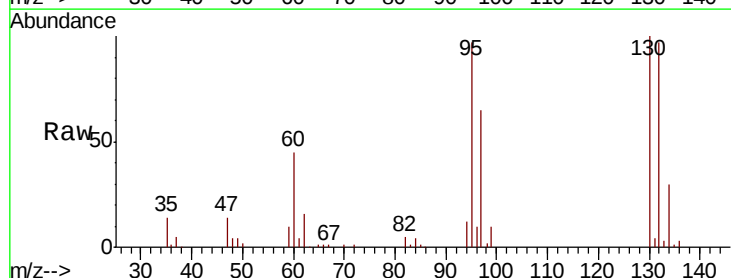
RT: 9.09 min Scan# 1179

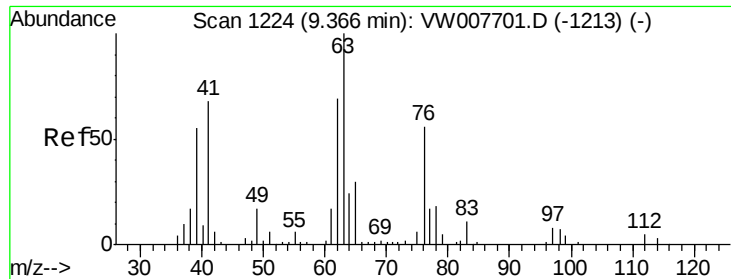
Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 44952 |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 95       | 97.4  | 0.0   | 194.8 |





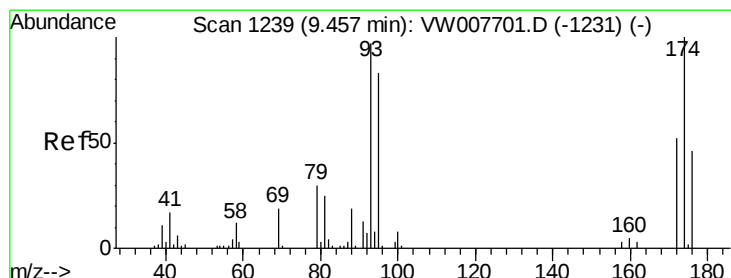
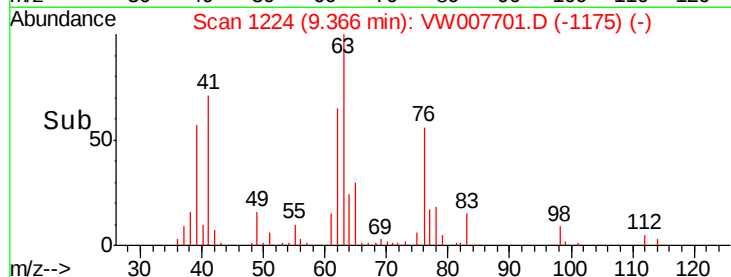
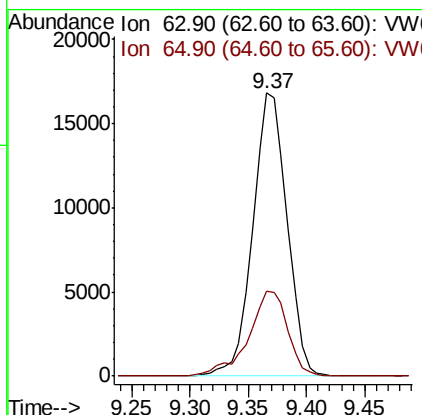
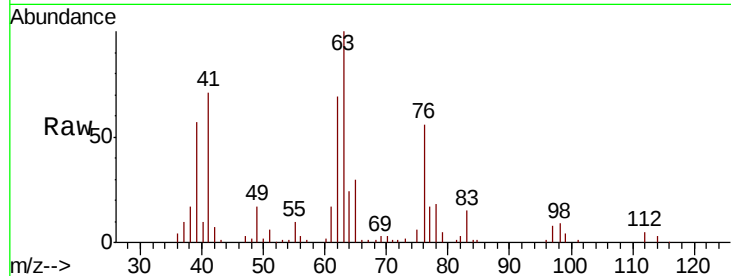
#45  
 1,2-Dichloropropane  
 Concen: 49.747 ug/l  
 RT: 9.37 min Scan# 1224  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Tot Ion: 63 Resp: 34258  
 Ion Ratio Lower Upper  
 63 100  
 65 29.8 23.8 35.8

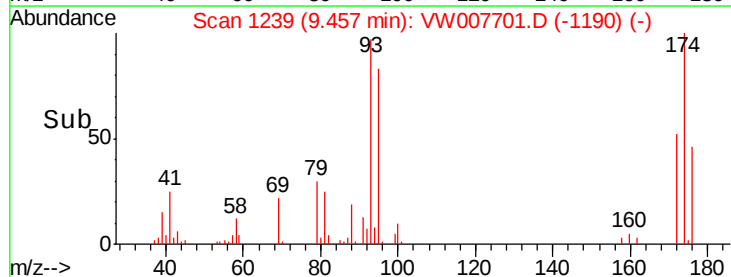
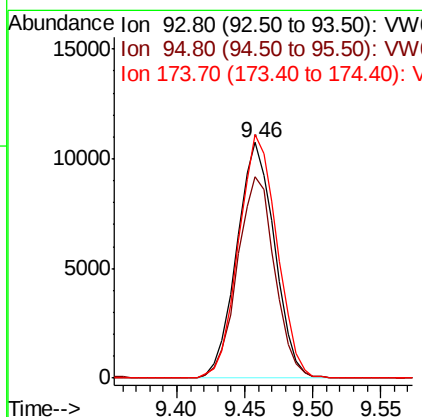
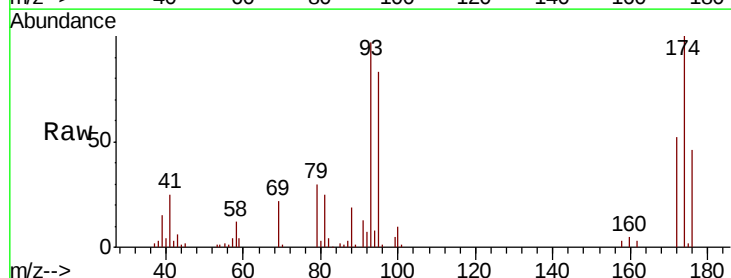
Manual Integrations  
 APPROVED

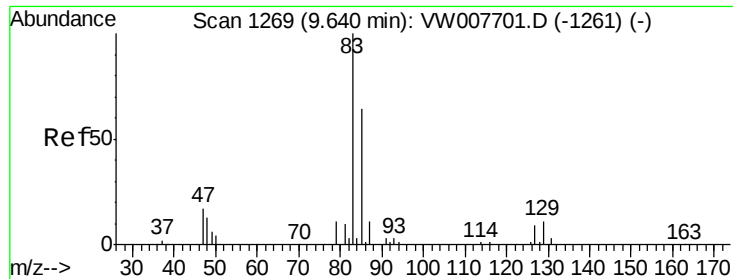
apatel  
 12/20/2018 11:19:39 AM



#46  
 Dibromomethane  
 Concen: 49.180 ug/l  
 RT: 9.46 min Scan# 1239  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Tgt Ion: 93 Resp: 20848  
 Ion Ratio Lower Upper  
 93 100  
 95 84.4 67.5 101.3  
 174 104.9 83.9 125.9





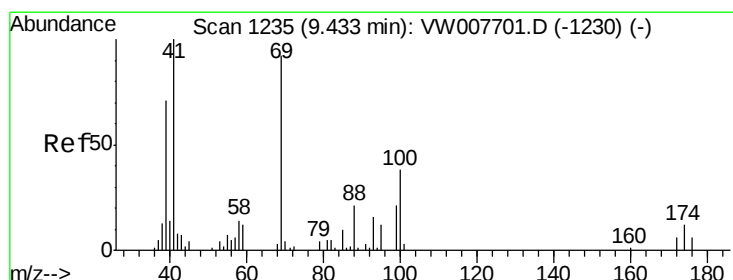
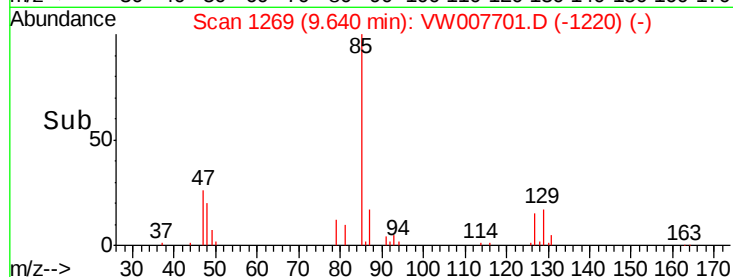
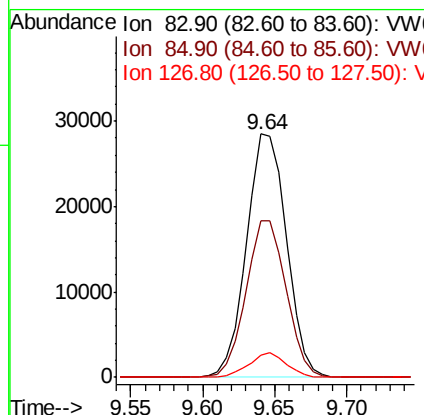
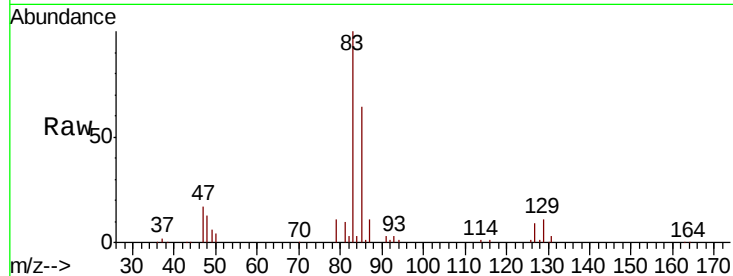
#47  
Bromodichloromethane  
Concen: 49.102 ug/l  
RT: 9.64 min Scan# 1269  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 85      | 64.2  | 51.4 | 77.0  |       |
| 127     | 9.4   | 7.5  | 11.3  |       |

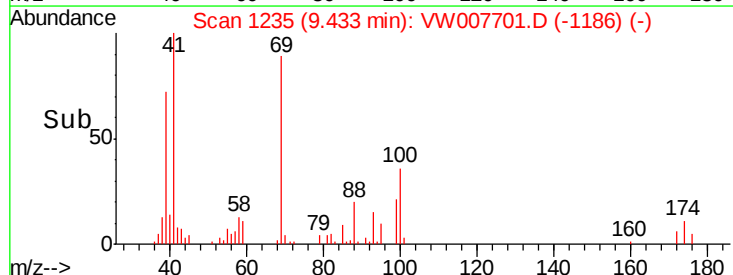
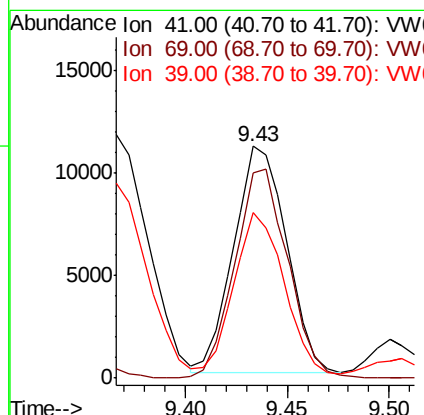
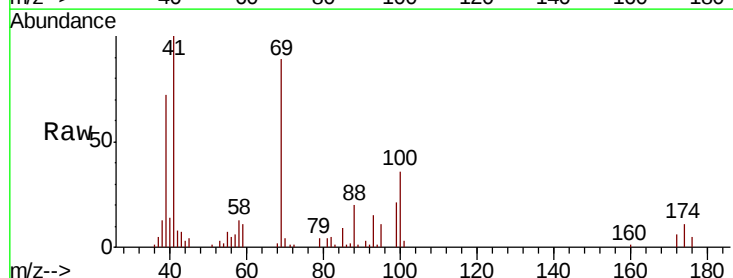
Manual Integrations  
APPROVED

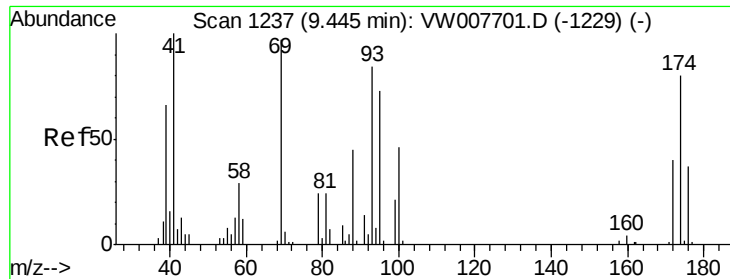
apatel  
12/20/2018 11:19:39 AM



#48  
Methyl methacrylate  
Concen: 49.593 ug/l  
RT: 9.43 min Scan# 1235  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 41      | 100   |      |       |       |
| 69      | 92.7  | 74.2 | 111.2 |       |
| 39      | 67.4  | 53.9 | 80.9  |       |





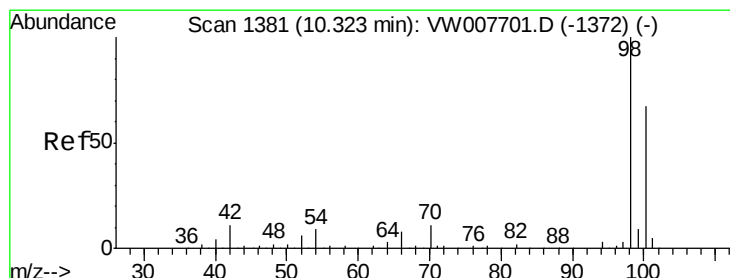
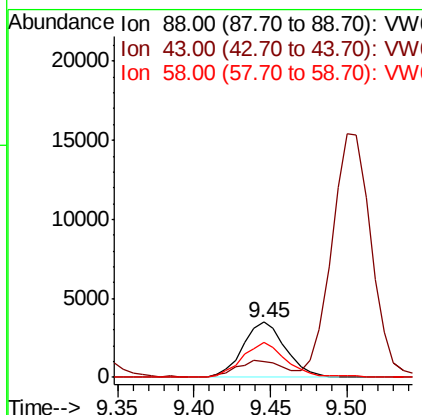
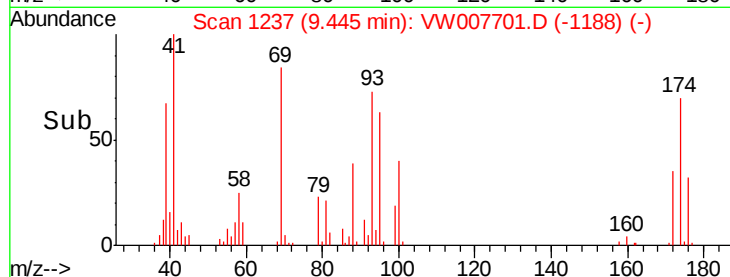
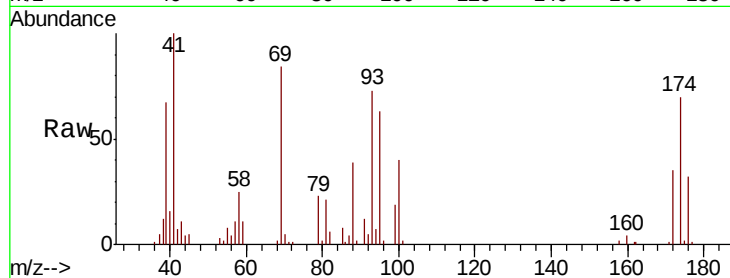
#49  
 1,4-Dioxane  
 Concen: 1008.347 ug/l  
 RT: 9.45 min Scan# 1237  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 32.0  | 25.6  | 38.4  |
| 58      | 65.4  | 52.3  | 78.5  |

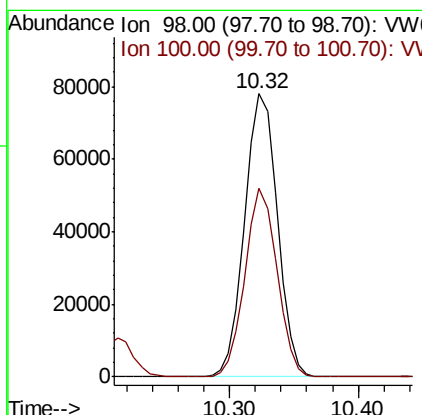
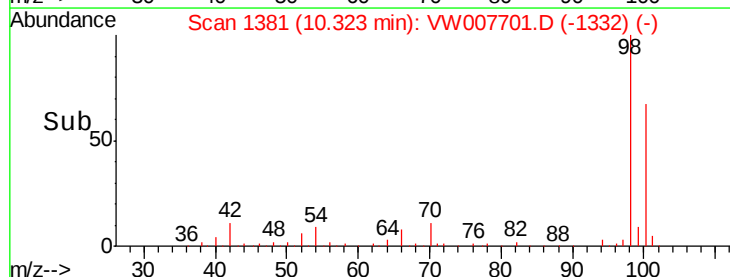
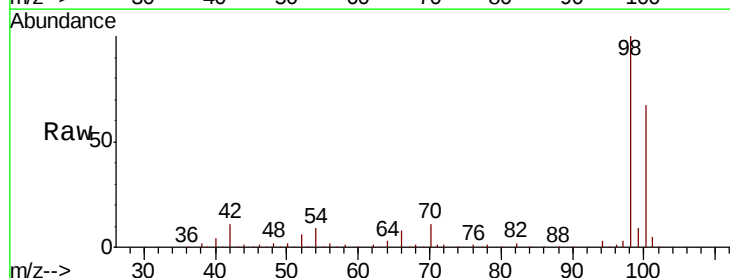
Manual Integrations  
 APPROVED

apatel  
 12/20/2018 11:19:39 AM



#50  
 Toluene-d8  
 Concen: 49.551 ug/l  
 RT: 10.32 min Scan# 1381  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.2  | 52.2  | 78.2  |





#51

4-Methyl-2-Pentanone

Concen: 247.882 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 94204

Ion Ratio Lower Upper

43 100

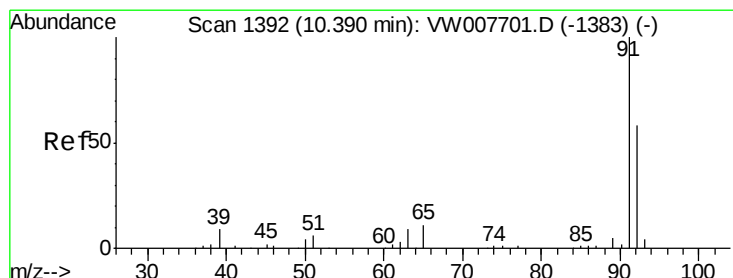
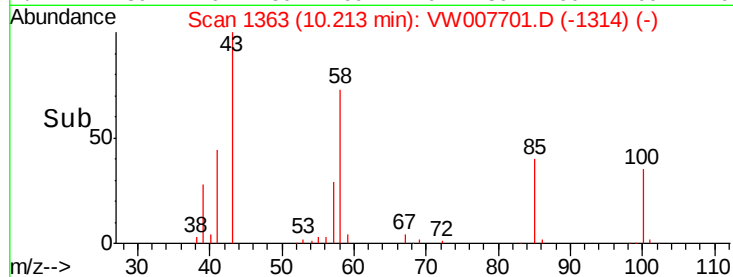
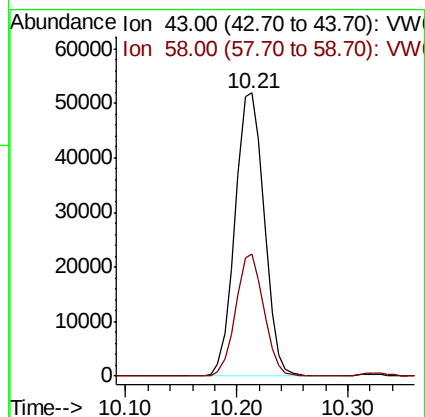
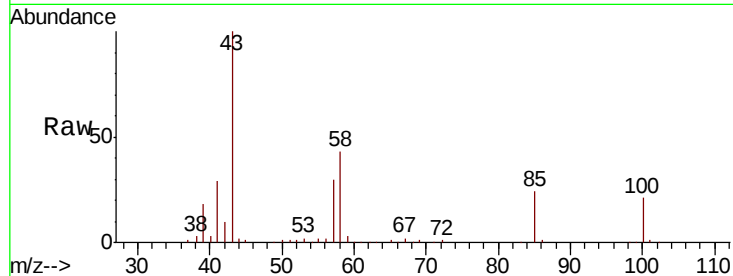
58 41.5 33.2 49.8

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



#52

Toluene

Concen: 48.389 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW007701.D

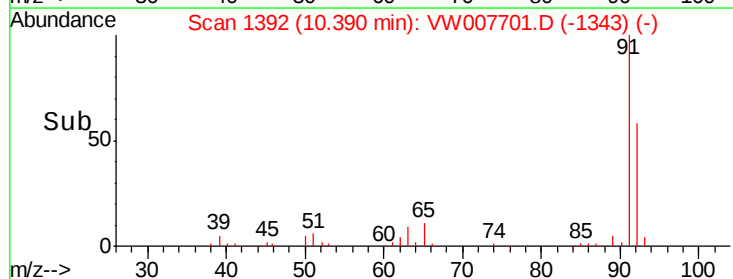
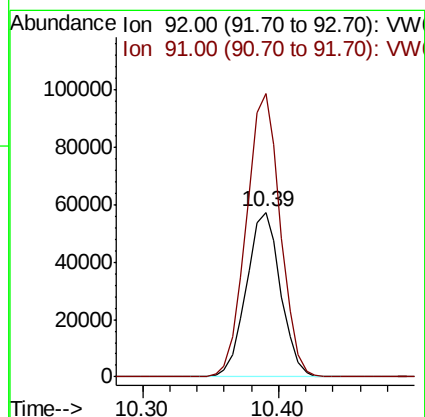
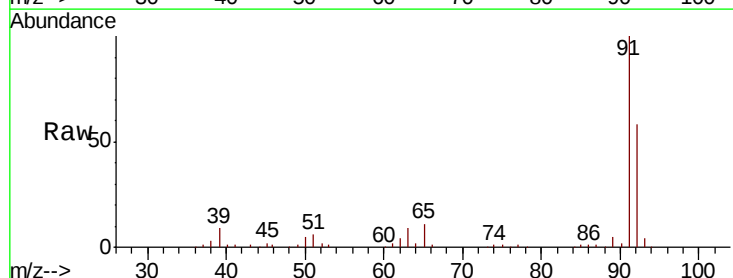
Acq: 19 Dec 2018 14:53

Tgt Ion: 92 Resp: 100758

Ion Ratio Lower Upper

92 100

91 171.2 137.0 205.4





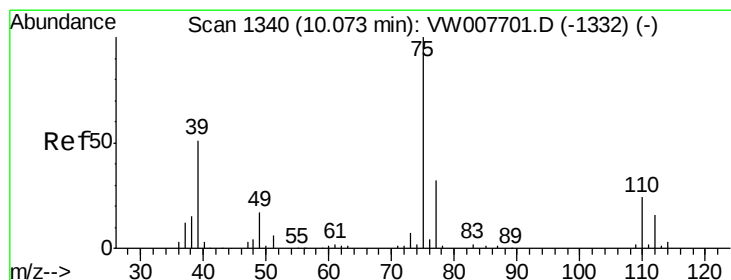
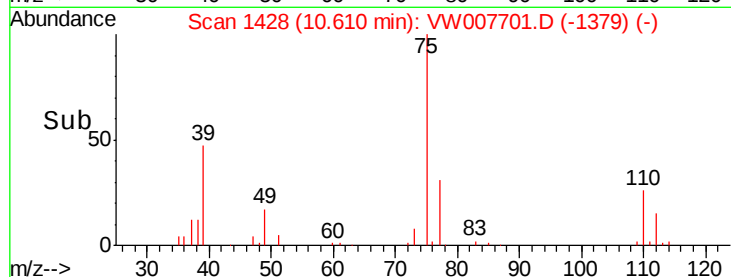
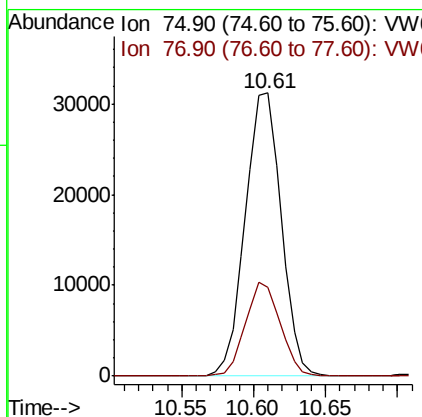
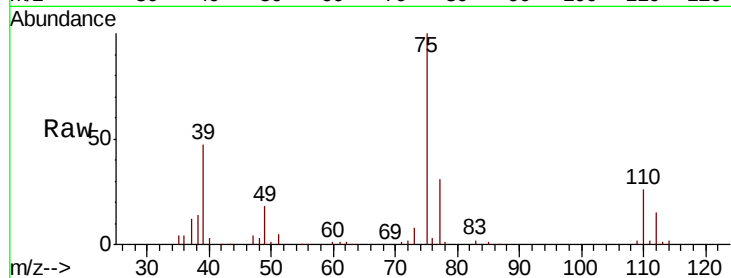
#53  
 t-1,3-Dichloropropene  
 Concen: 48.702 ug/l  
 RT: 10.61 min Scan# 1428  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Tot Ion: 75 Resp: 53985  
 Ion Ratio Lower Upper  
 75 100  
 77 31.5 25.2 37.8

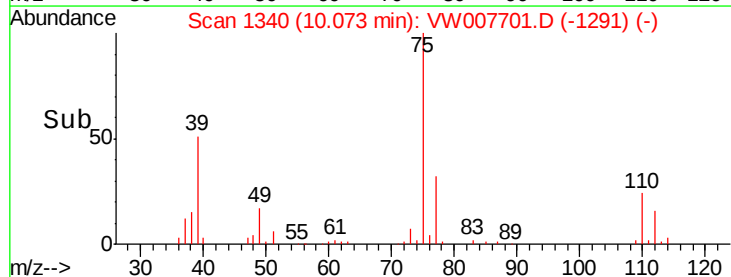
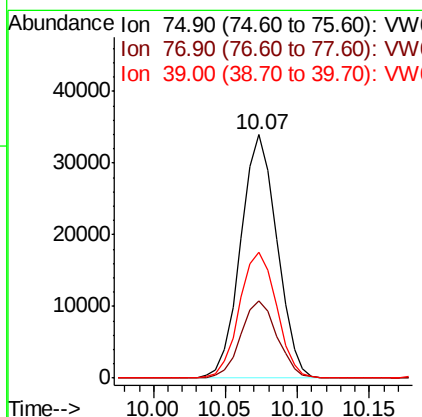
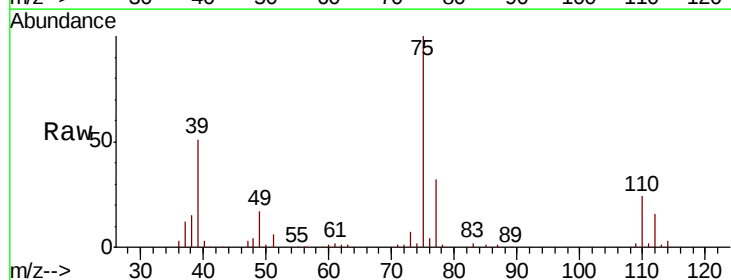
Manual Integrations  
 APPROVED

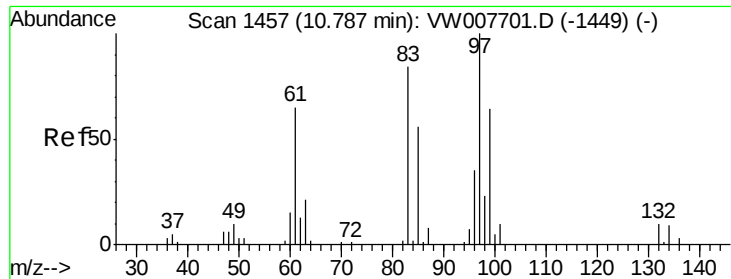
apatel  
 12/20/2018 11:19:39 AM



#54  
 cis-1,3-Dichloropropene  
 Concen: 48.579 ug/l  
 RT: 10.07 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Tgt Ion: 75 Resp: 59480  
 Ion Ratio Lower Upper  
 75 100  
 77 31.9 25.5 38.3  
 39 51.5 41.2 61.8





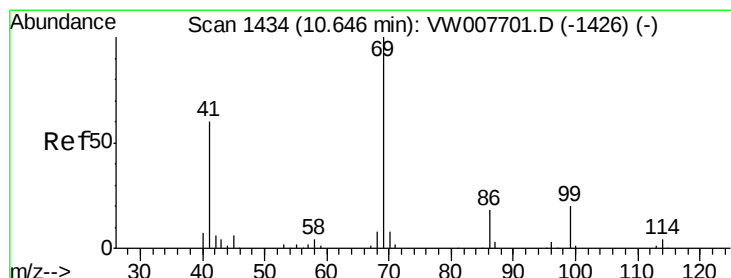
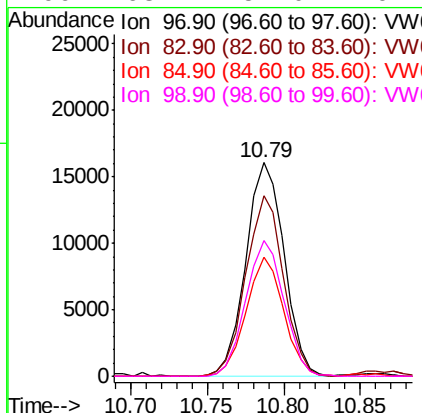
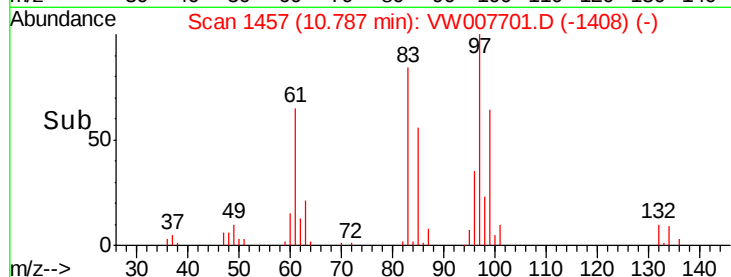
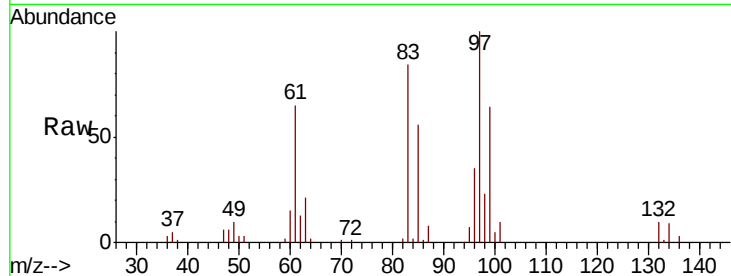
#55  
 1,1,2-Trichloroethane  
 Concen: 47.860 ug/l  
 RT: 10.79 min Scan# 1457  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 27969 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.4  | 67.5  | 101.3 |
| 85       | 56.0  | 44.8  | 67.2  |
| 99       | 63.7  | 51.0  | 76.4  |

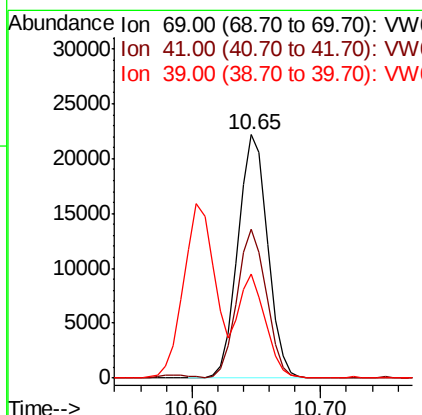
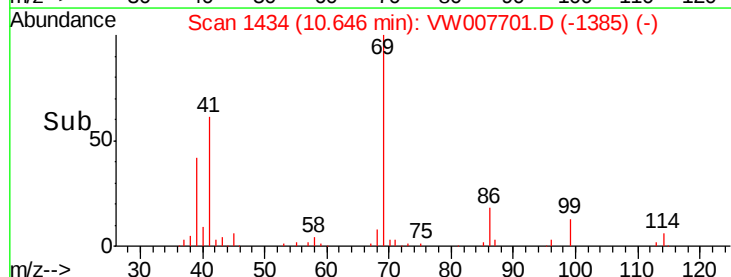
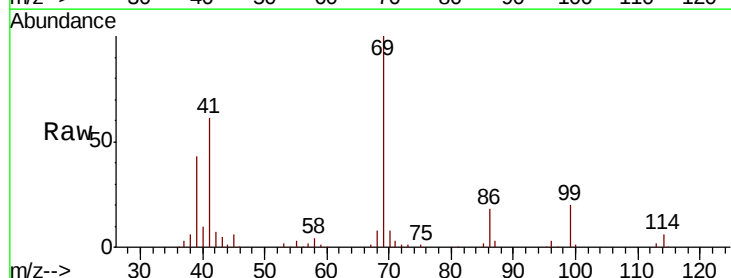
Manual Integrations  
 APPROVED

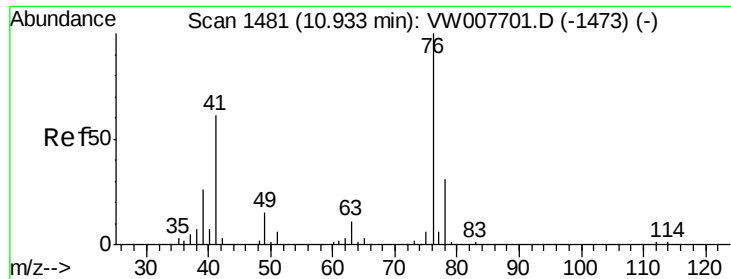
apatel  
 12/20/2018 11:19:39 AM



#56  
 Ethyl methacrylate  
 Concen: 51.274 ug/l  
 RT: 10.65 min Scan# 1434  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 35403 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 61.1  | 48.9  | 73.3  |
| 39       | 39.1  | 31.3  | 46.9  |





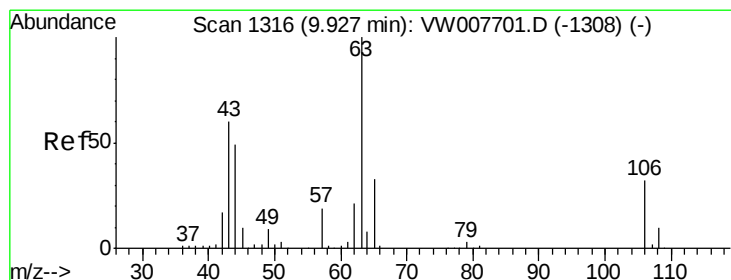
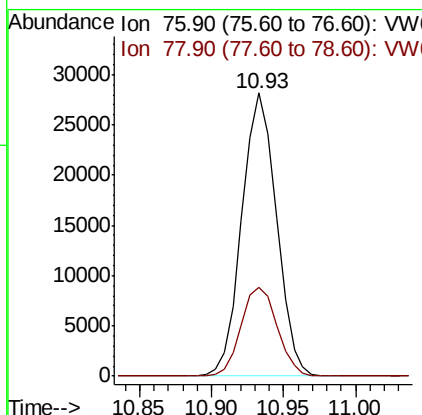
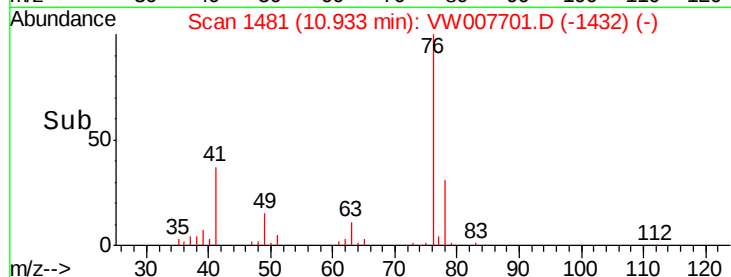
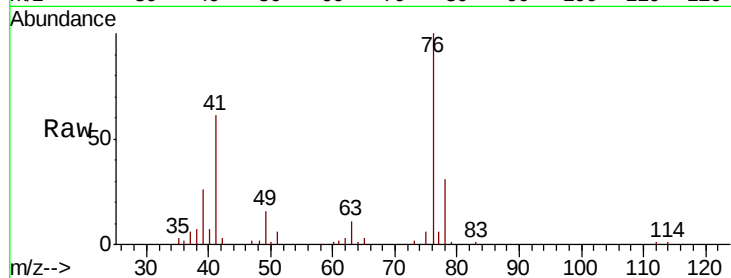
#57  
 1,3-Dichloropropane  
 Concen: 48.418 ug/l  
 RT: 10.93 min Scan# 1481  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Tot Ion: 76 Resp: 46986  
 Ion Ratio Lower Upper  
 76 100  
 78 32.7 26.2 39.2

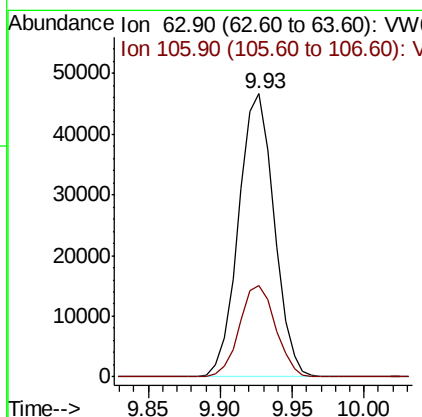
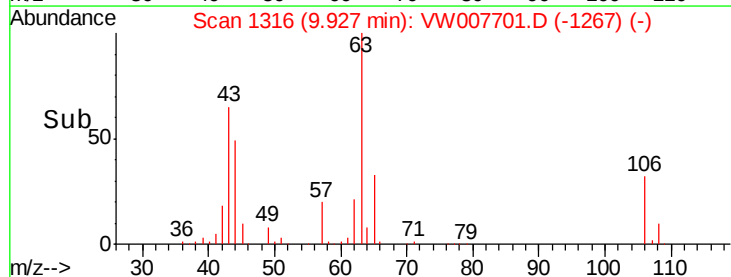
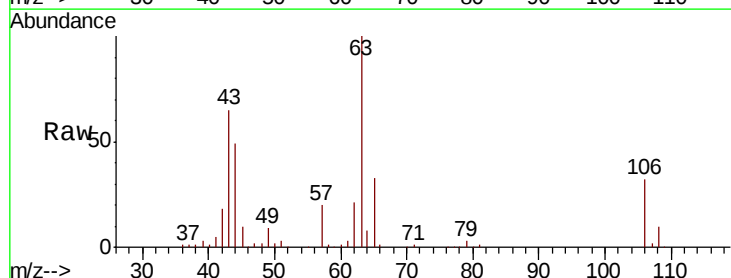
Manual Integrations  
 APPROVED

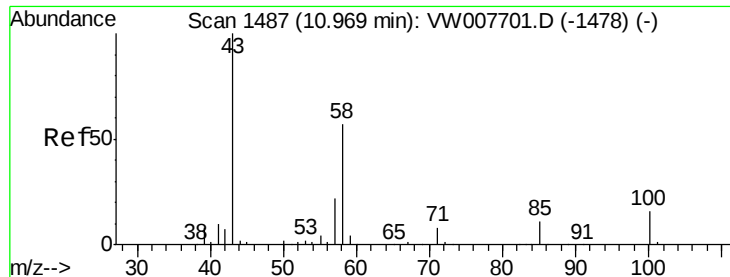
apatel  
 12/20/2018 11:19:39 AM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 254.180 ug/l  
 RT: 9.93 min Scan# 1316  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Tgt Ion: 63 Resp: 80130  
 Ion Ratio Lower Upper  
 63 100  
 106 32.4 25.9 38.9





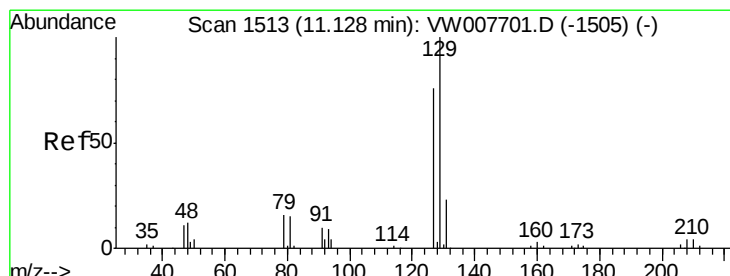
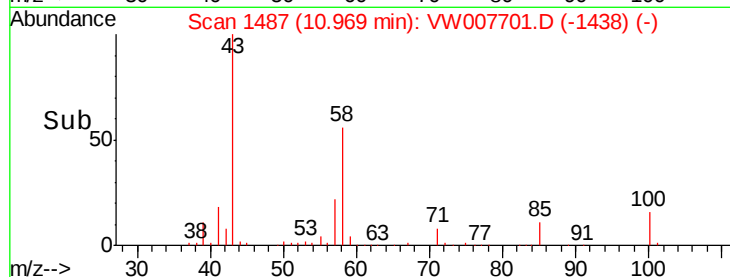
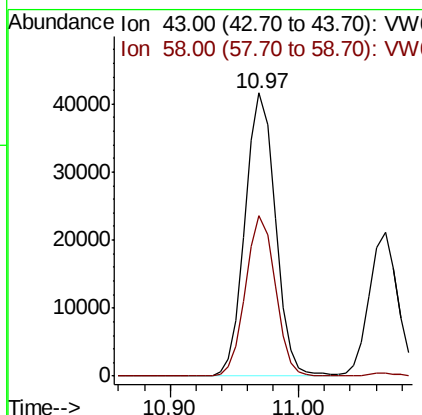
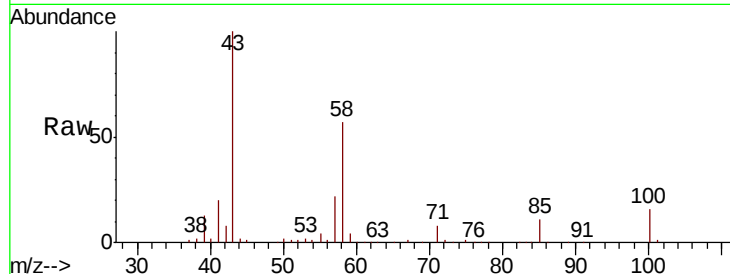
#59  
2-Hexanone  
Concen: 253.484 ug/l  
RT: 10.97 min Scan# 1487  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion: 43 Resp: 67748  
Ion Ratio Lower Upper  
43 100  
58 55.4 27.7 83.1

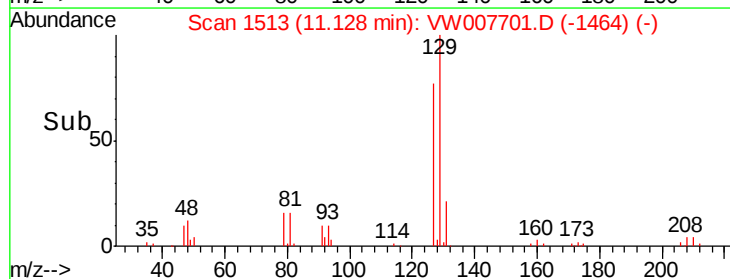
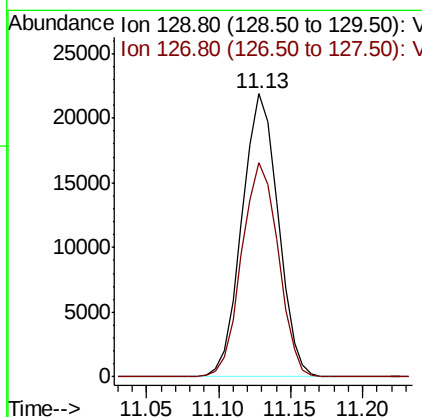
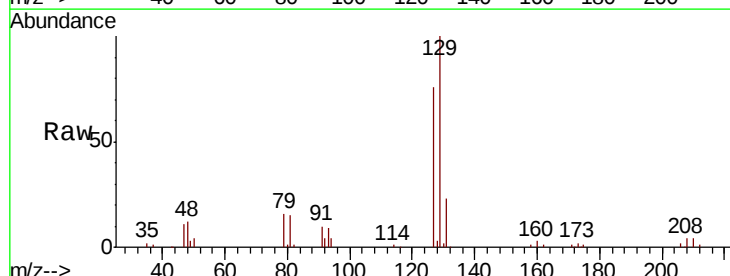
Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#60  
Dibromochloromethane  
Concen: 49.226 ug/l  
RT: 11.13 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Tgt Ion: 129 Resp: 38090  
Ion Ratio Lower Upper  
129 100  
127 76.6 38.3 114.9





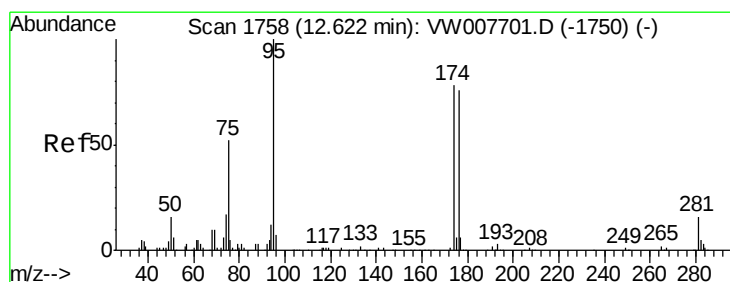
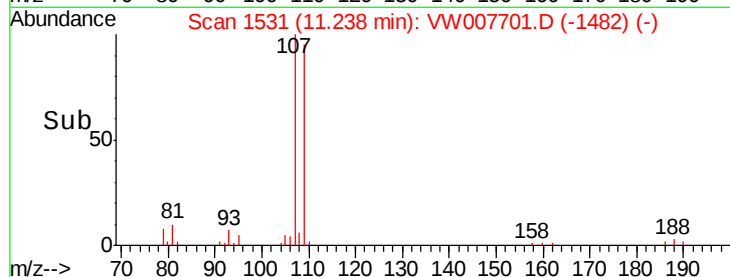
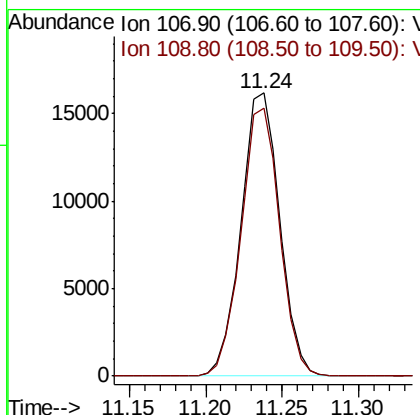
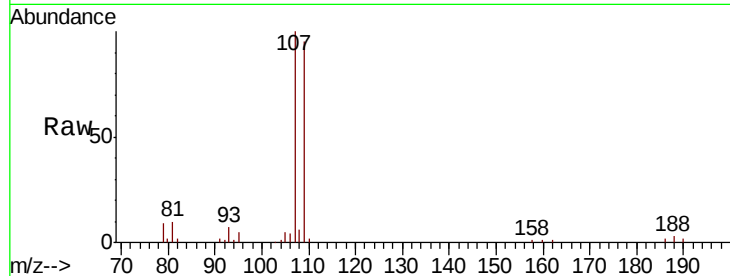
#61  
 1,2-Dibromoethane  
 Concen: 48.114 ug/l  
 RT: 11.24 min Scan# 1531  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Tot Ion: 107 Resp: 28474  
 Ion Ratio Lower Upper  
 107 100  
 109 94.2 75.4 113.0

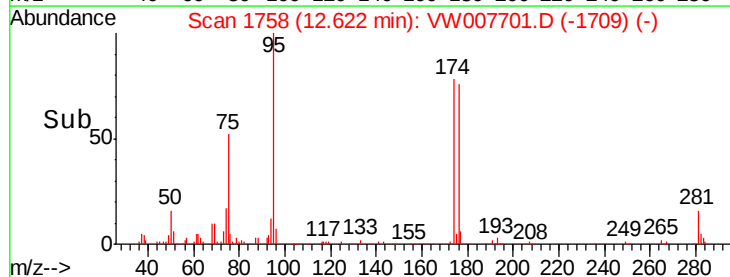
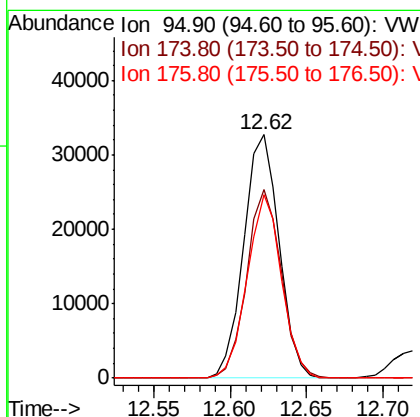
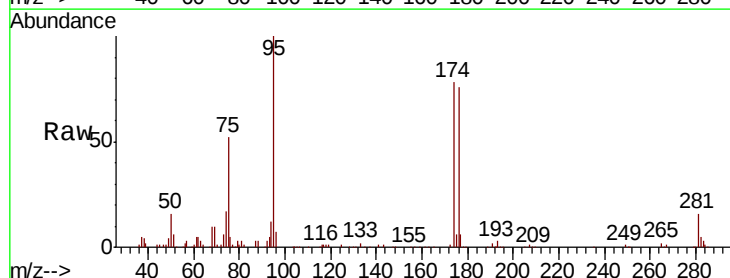
Manual Integrations  
 APPROVED

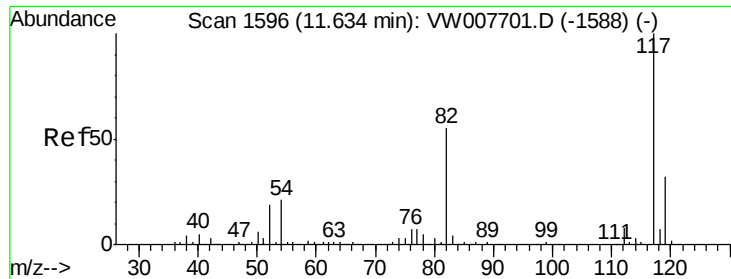
apatel  
 12/20/2018 11:19:39 AM



#62  
 4-Bromofluorobenzene  
 Concen: 49.068 ug/l  
 RT: 12.62 min Scan# 1758  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Tgt Ion: 95 Resp: 52532  
 Ion Ratio Lower Upper  
 95 100  
 174 76.1 0.0 152.2  
 176 73.4 0.0 146.8





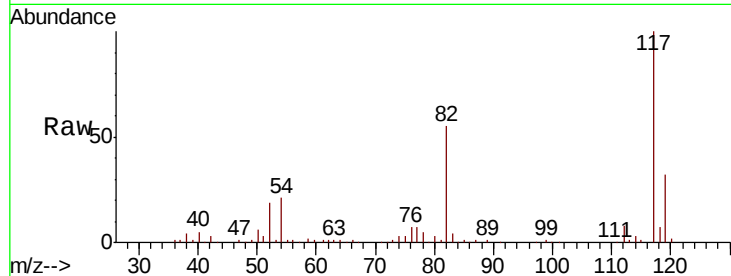
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 55.4  | 44.3  | 66.5  |
| 119     | 32.1  | 25.7  | 38.5  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM

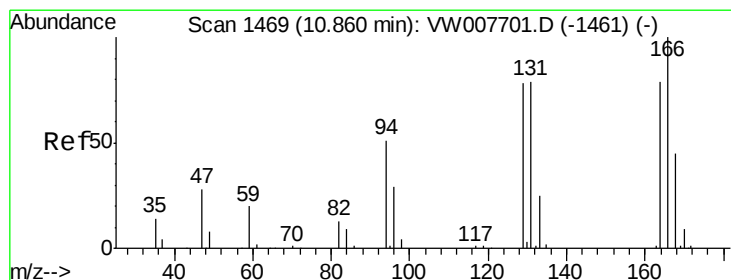
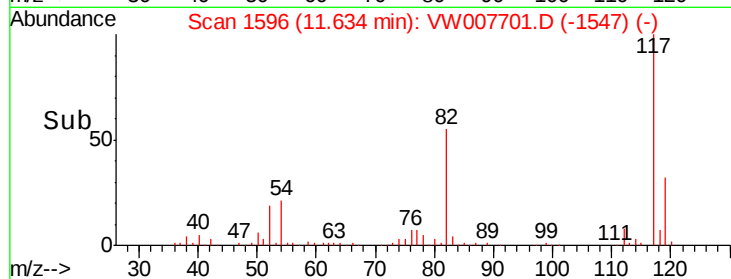
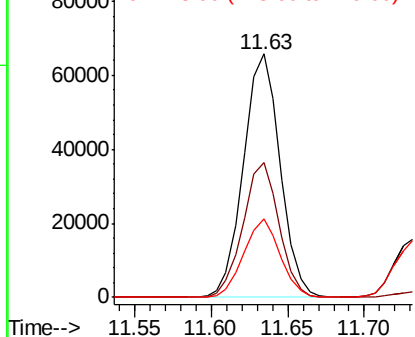


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64  
Tetrachloroethene  
Concen: 48.458 ug/l  
RT: 10.86 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.3 | 101.0 | 151.6 |
| 129     | 98.4  | 78.7  | 118.1 |
| 131     | 99.2  | 79.4  | 119.0 |

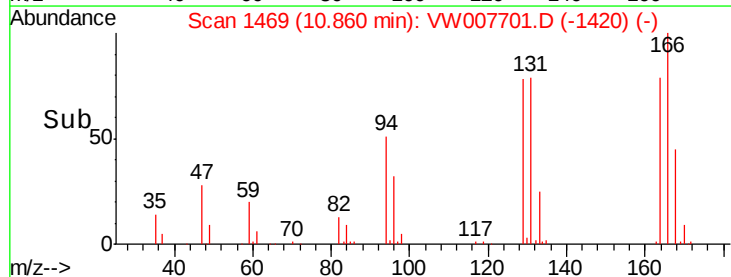
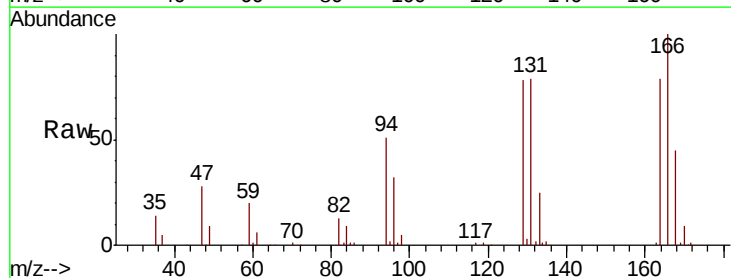
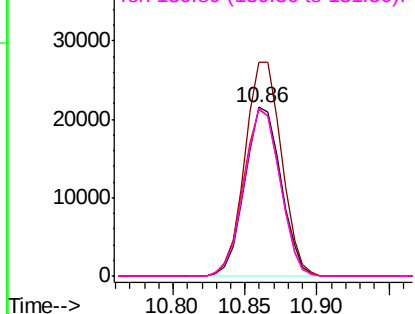
Abundance

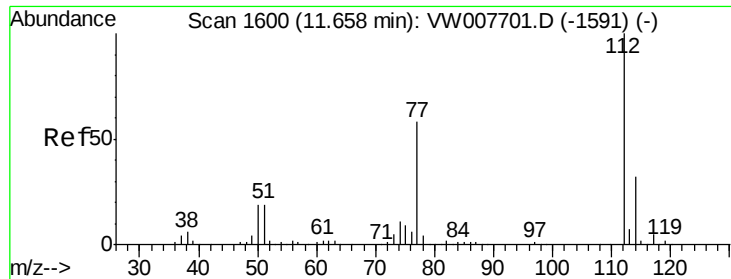
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





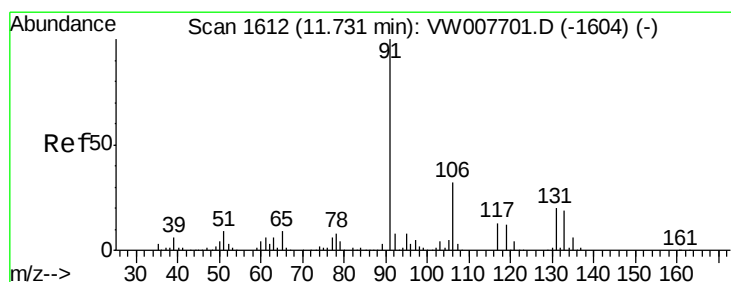
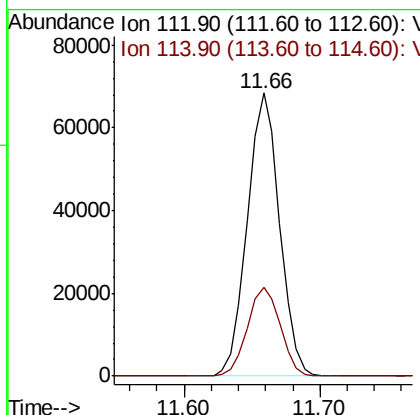
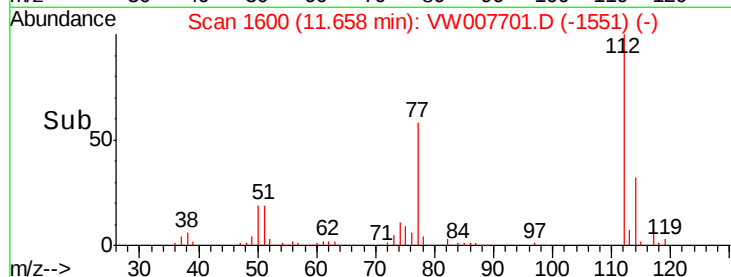
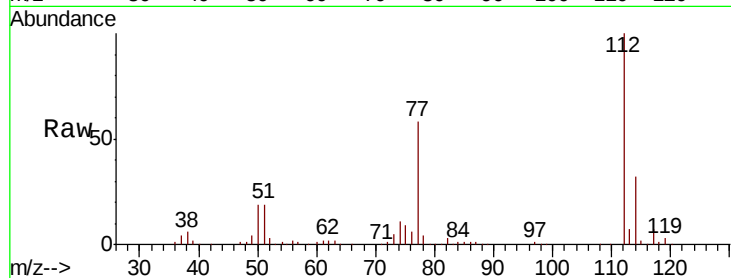
#65  
Chlorobenzene  
Concen: 47.974 ug/l  
RT: 11.66 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion:112 Resp: 113461  
Ion Ratio Lower Upper  
112 100  
114 31.5 25.2 37.8

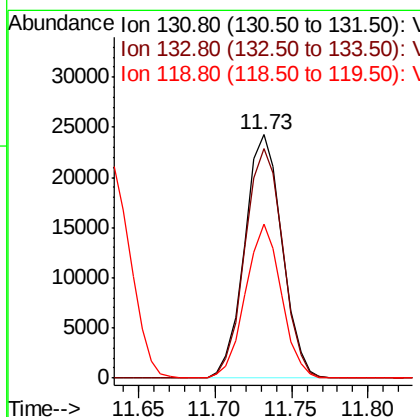
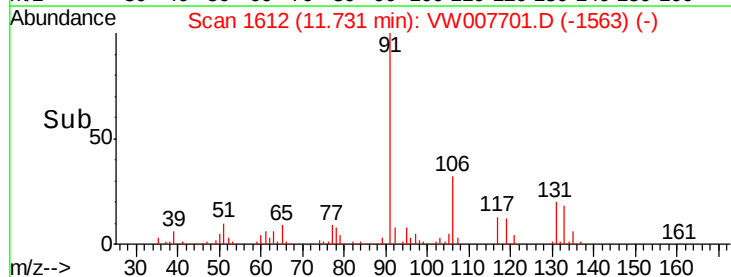
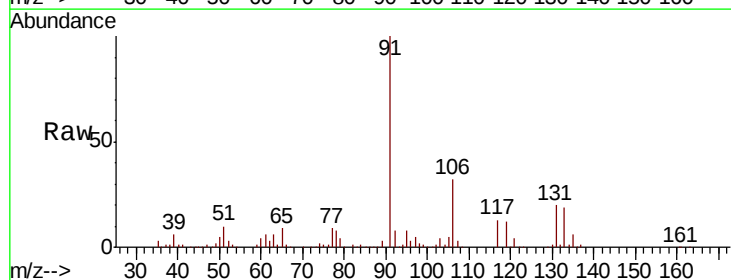
Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 49.012 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Tgt Ion:131 Resp: 41419  
Ion Ratio Lower Upper  
131 100  
133 95.0 47.5 142.5  
119 60.4 30.2 90.6





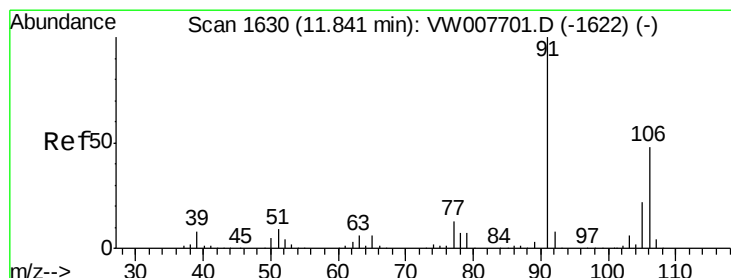
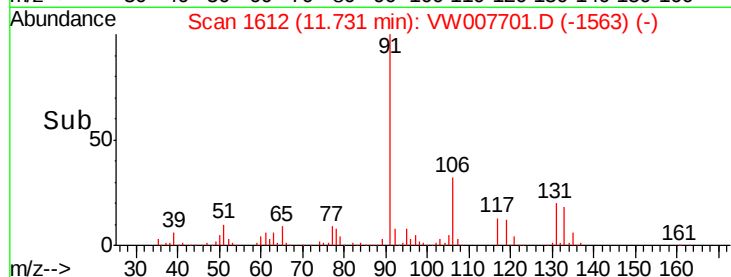
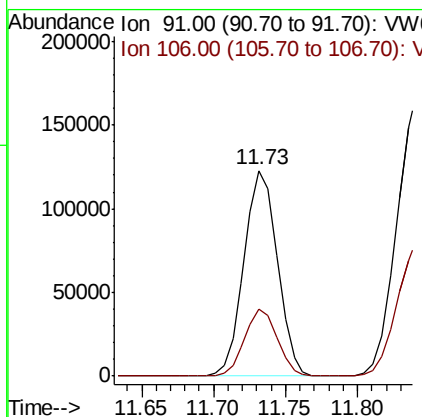
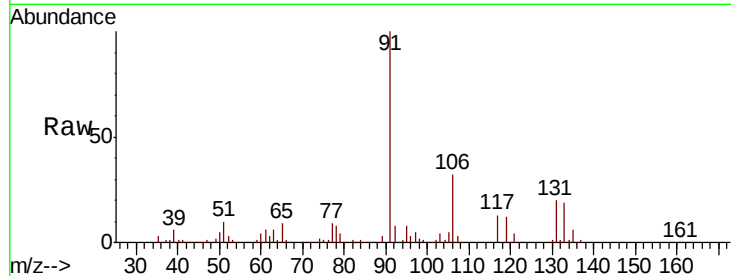
#67  
Ethyl Benzene  
Concen: 48.646 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

Tot Ion: 91 Resp: 197427  
Ion Ratio Lower Upper  
91 100  
106 32.3 25.8 38.8

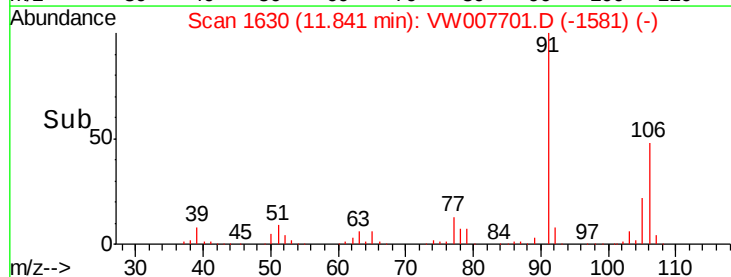
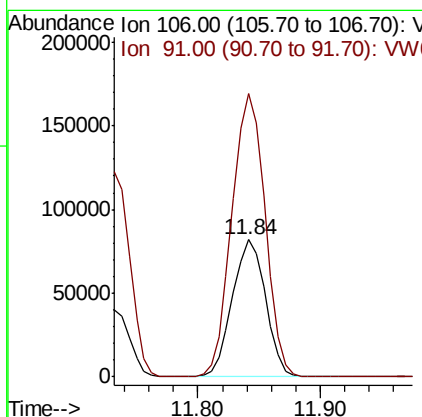
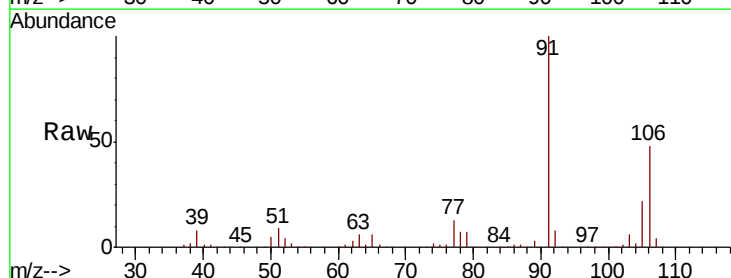
Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#68  
m/p-Xylenes  
Concen: 97.869 ug/l  
RT: 11.84 min Scan# 1630  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Tgt Ion: 106 Resp: 154078  
Ion Ratio Lower Upper  
106 100  
91 206.5 165.2 247.8





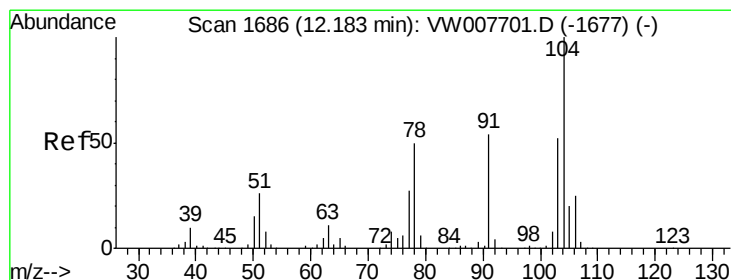
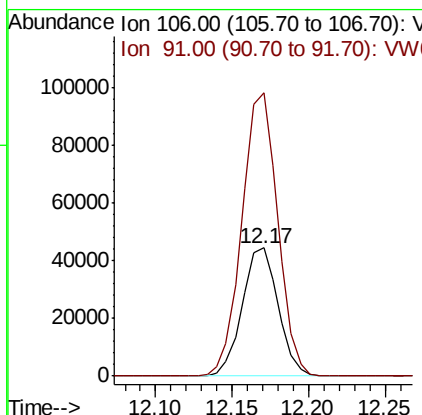
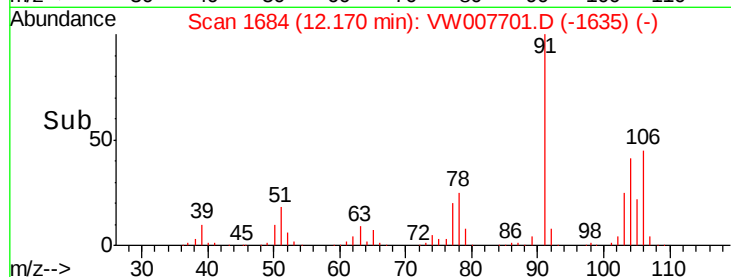
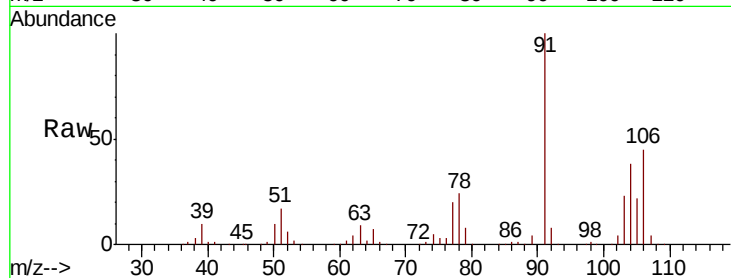
#69  
o-Xylene  
Concen: 49.100 ug/l  
RT: 12.17 min Scan# 1684  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleID :  
VSTDICCC050

Tot Ion:106 Resp: 72458  
Ion Ratio Lower Upper  
106 100  
91 220.9 110.5 331.4

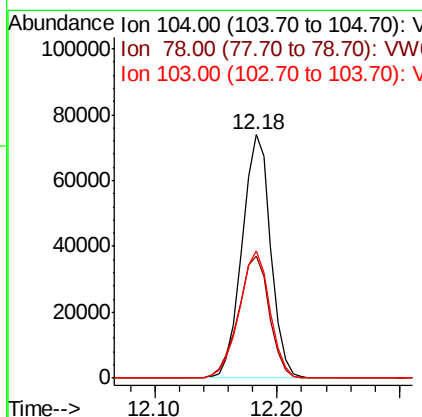
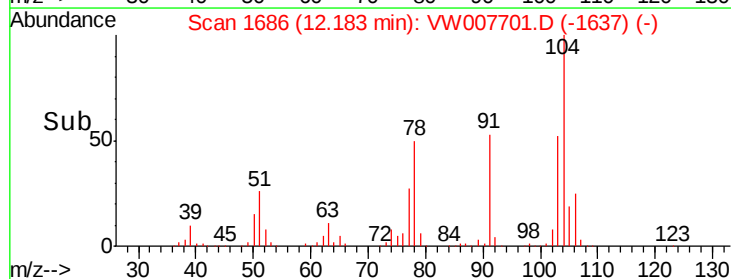
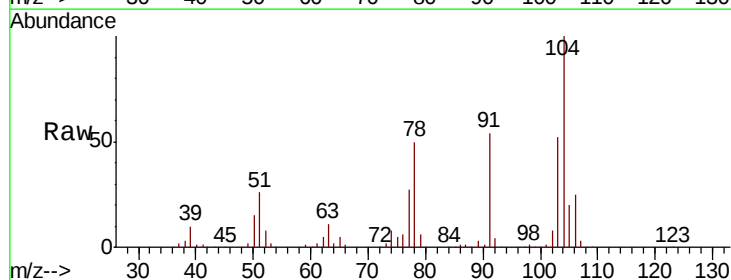
Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#70  
Styrene  
Concen: 49.489 ug/l  
RT: 12.18 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Tgt Ion:104 Resp: 120051  
Ion Ratio Lower Upper  
104 100  
78 54.2 43.4 65.0  
103 55.6 44.5 66.7





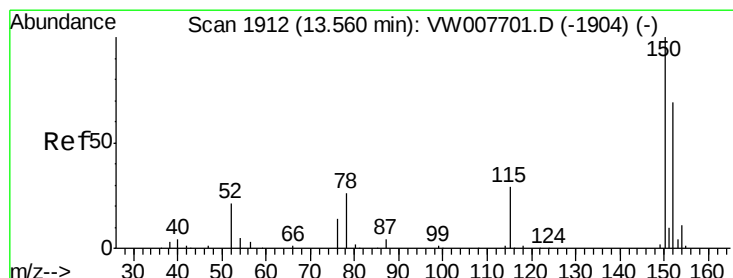
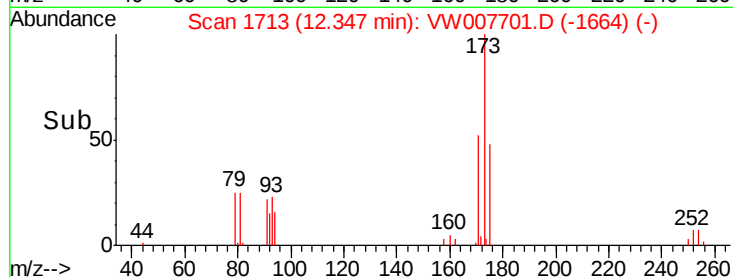
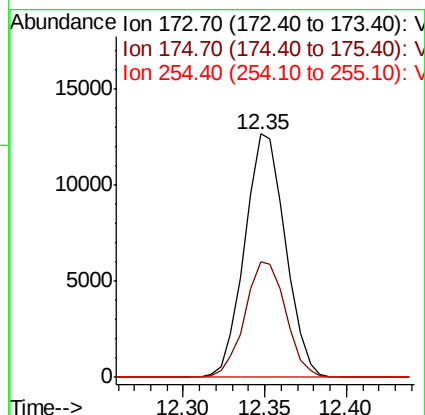
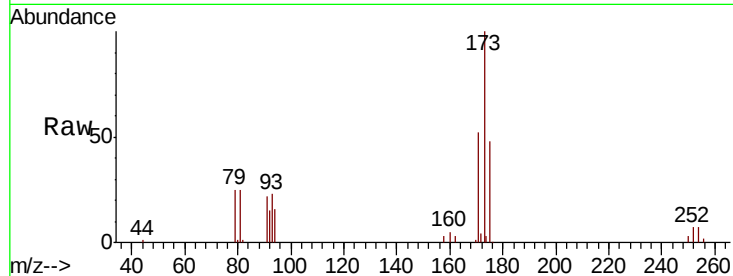
#71  
Bromoform  
Concen: 50.146 ug/l  
RT: 12.35 min Scan# 1713  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 47.8  | 23.9  | 71.7  |
| 254     | 0.0   | 0.0   | 0.0   |

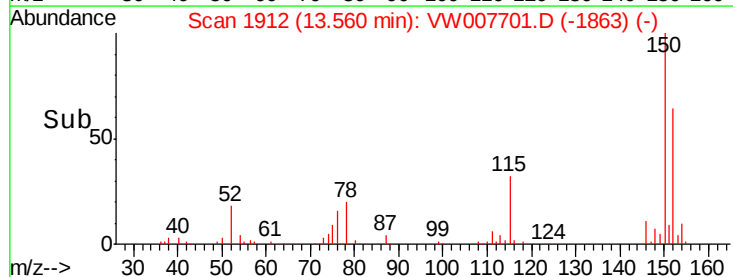
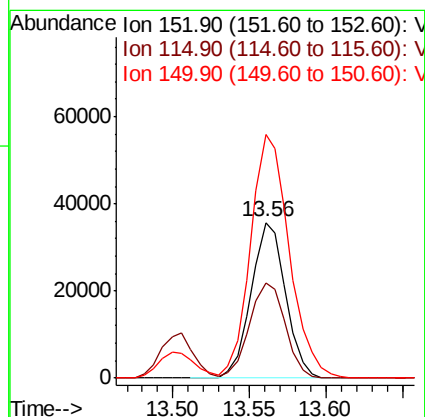
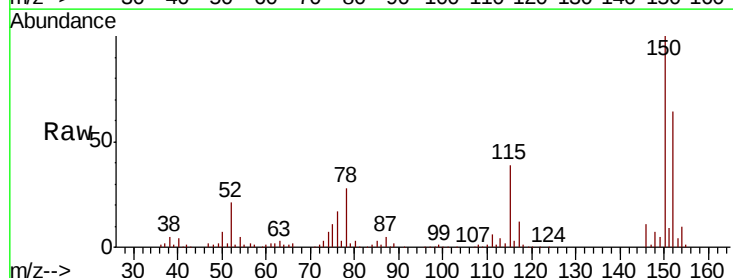
Manual Integrations  
APPROVED

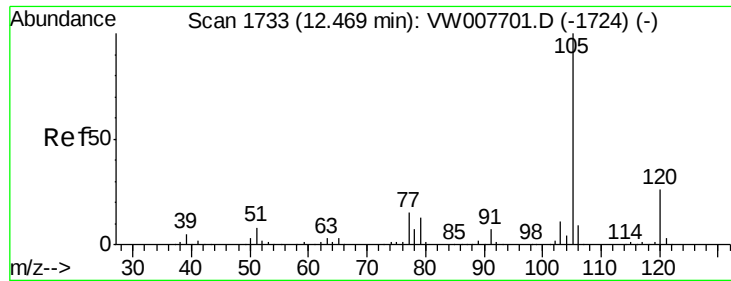
apatel  
12/20/2018 11:19:39 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.56 min Scan# 1912  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 63.6  | 31.8  | 95.4  |
| 150     | 175.4 | 0.0   | 350.8 |





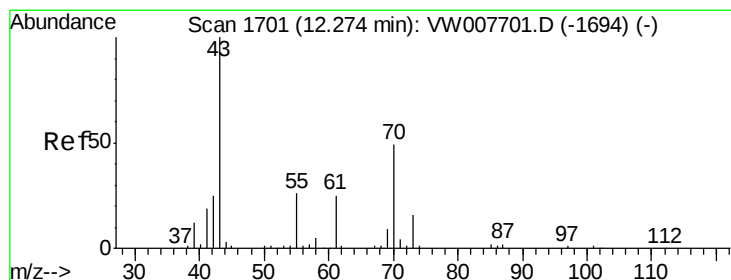
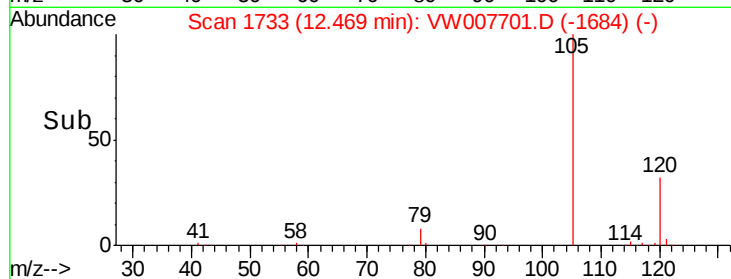
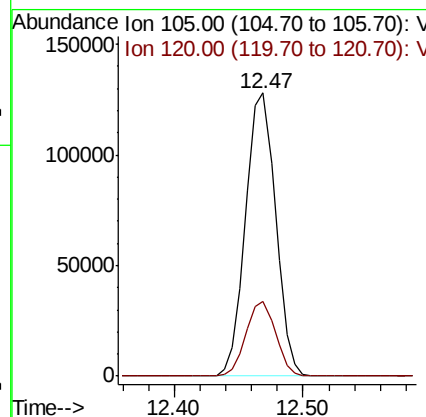
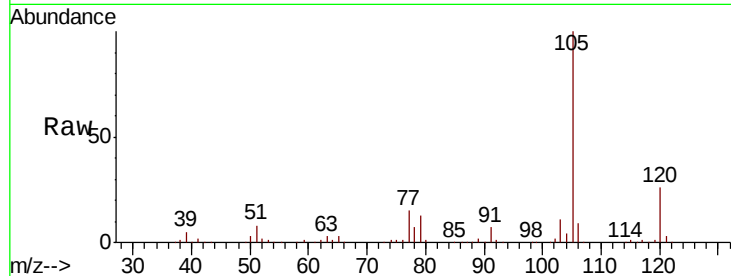
#73  
Isopropylbenzene  
Concen: 48.819 ug/l  
RT: 12.47 min Scan# 1733  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.2  | 13.1  | 39.3  |

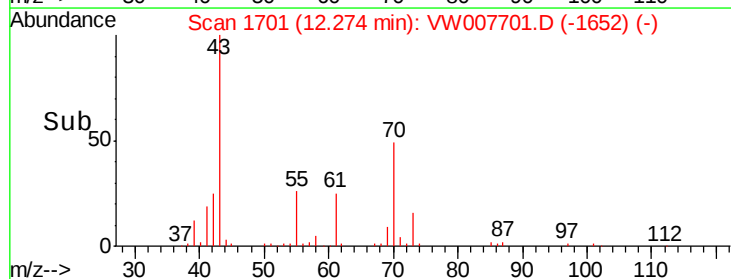
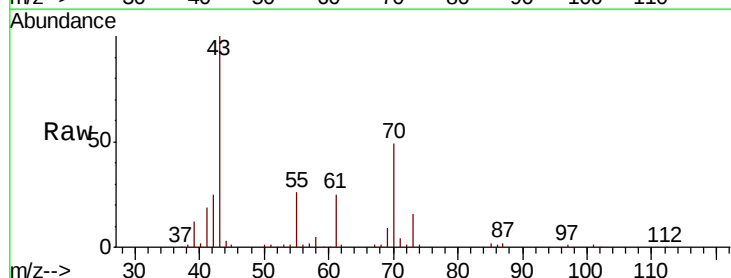
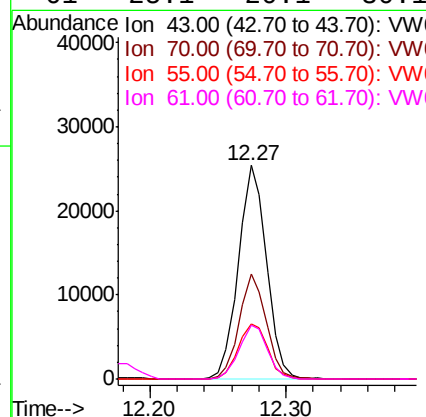
Manual Integrations  
APPROVED

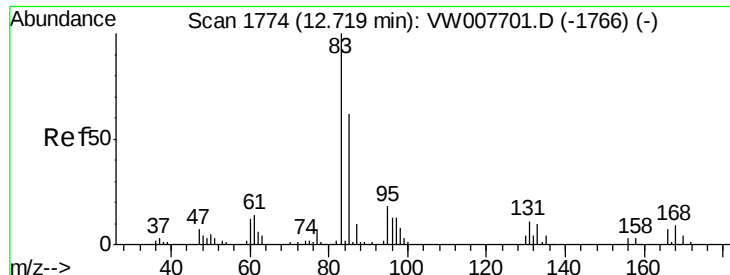
apatel  
12/20/2018 11:19:39 AM



#74  
N-ethyl acetate  
Concen: 49.981 ug/l  
RT: 12.27 min Scan# 1701  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 47.0  | 37.6  | 56.4  |
| 55      | 27.1  | 21.7  | 32.5  |
| 61      | 25.1  | 20.1  | 30.1  |





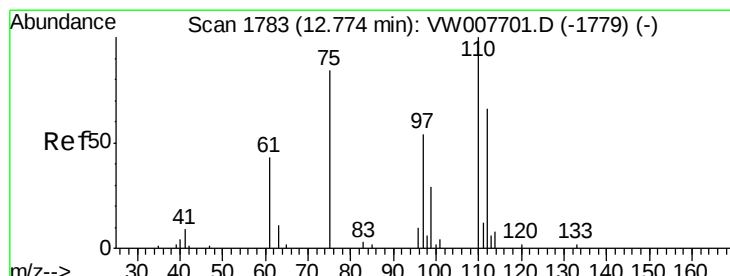
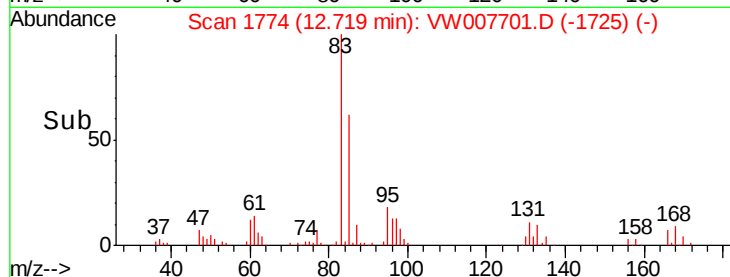
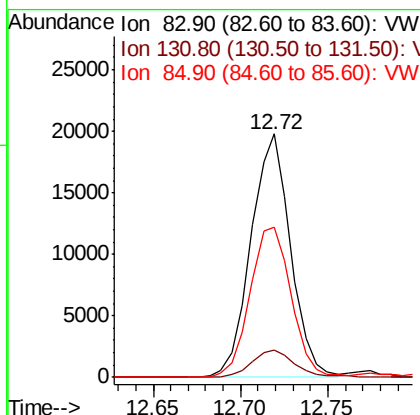
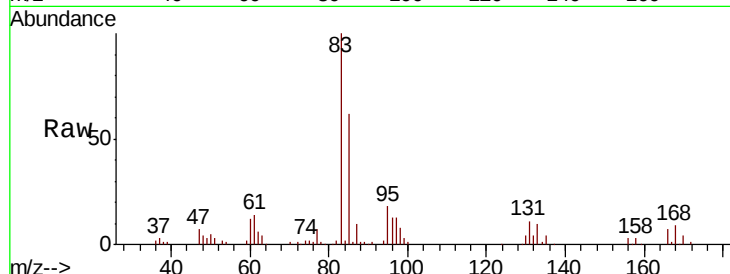
#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 49.318 ug/l  
 RT: 12.72 min Scan# 1774  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 12.5  | 6.3   | 18.8  |
| 85      | 64.5  | 32.3  | 96.8  |

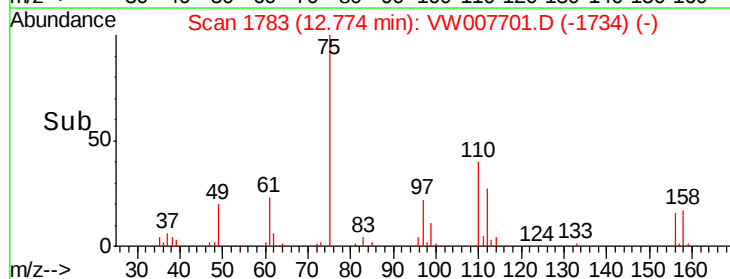
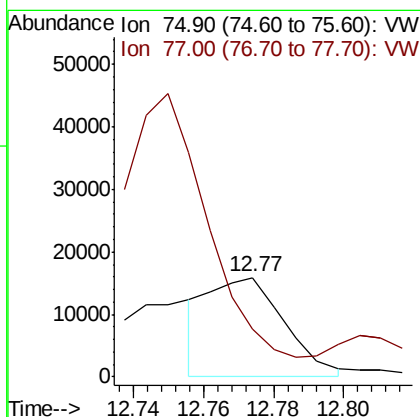
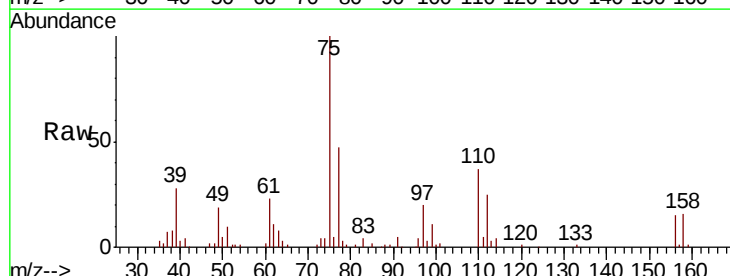
Manual Integrations  
 APPROVED

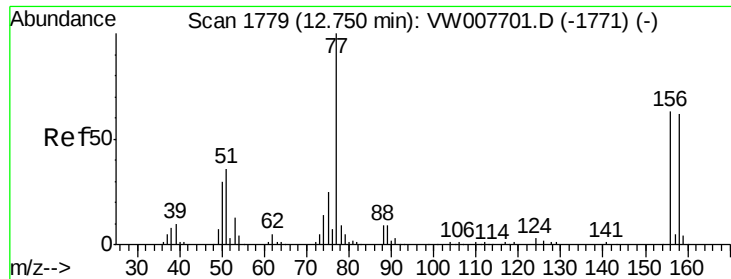
apatel  
 12/20/2018 11:19:39 AM



#76  
 1,2,3-Trichloropropane  
 Concen: 28.499 ug/l m  
 RT: 12.77 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 0.0   |





#77

Bromobenzene

Concen: 49.033 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion:156 Resp: 47529

Ion Ratio Lower Upper

156 100

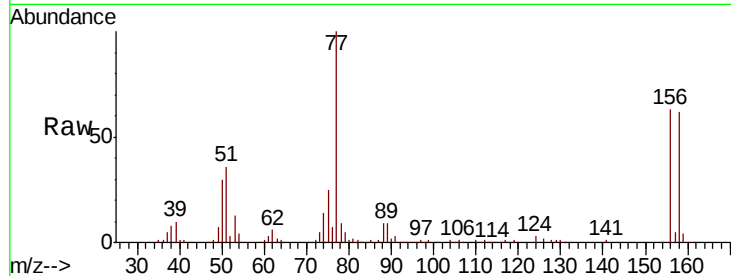
77 174.7 87.4 262.1

158 96.7 48.4 145.0

Manual Integrations  
APPROVED

apatel

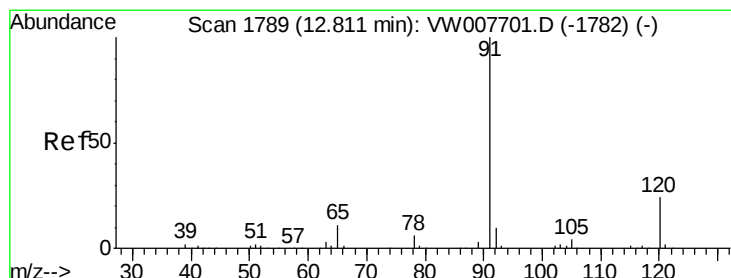
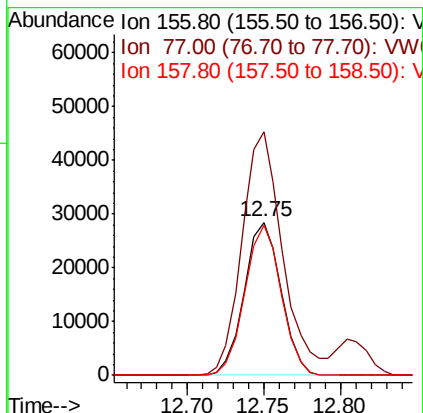
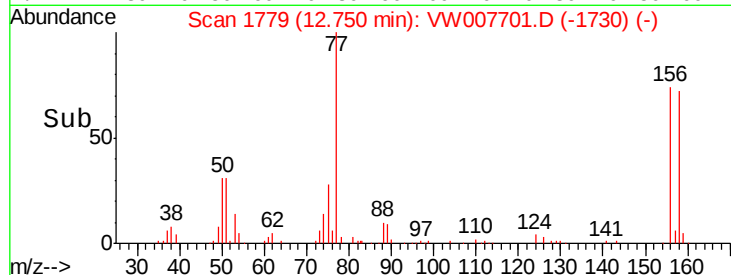
12/20/2018 11:19:39 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.047 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW007701.D

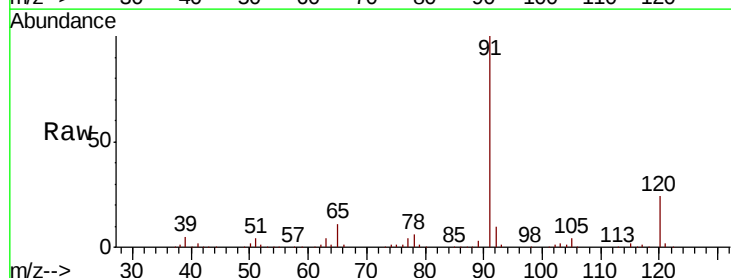
Acq: 19 Dec 2018 14:53

Tgt Ion: 91 Resp: 241487

Ion Ratio Lower Upper

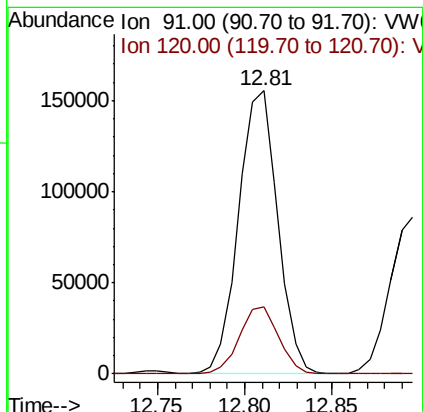
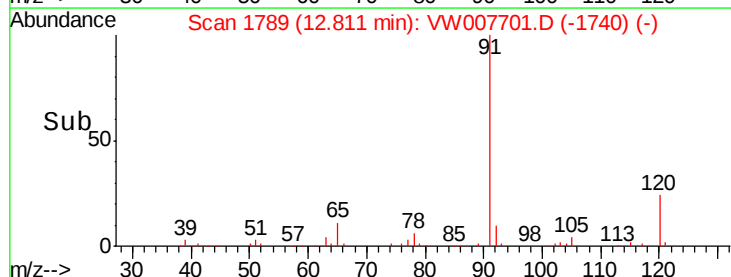
91 100

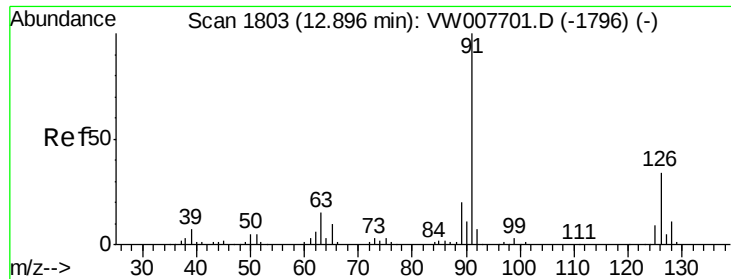
120 23.8 11.9 35.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





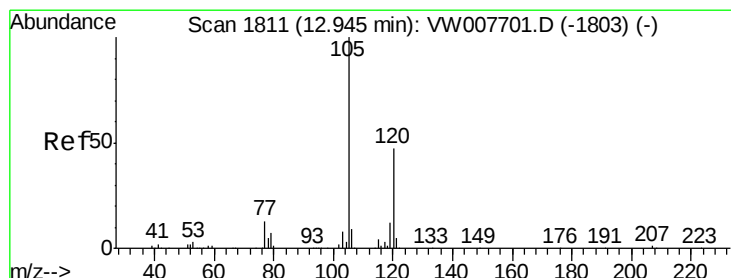
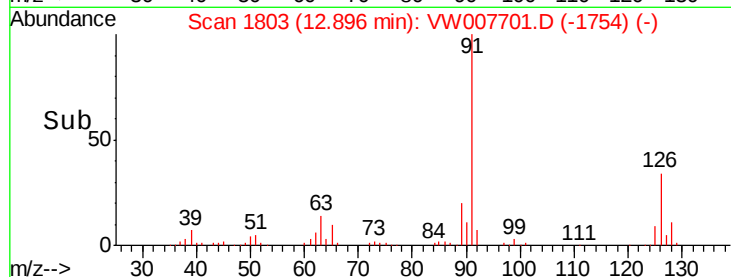
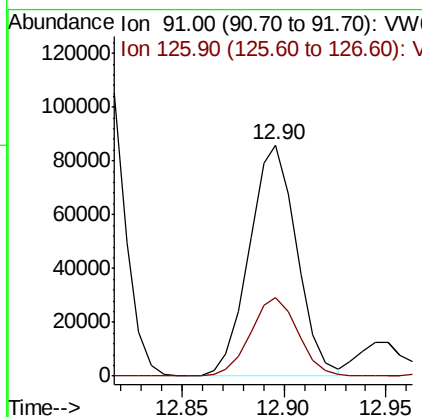
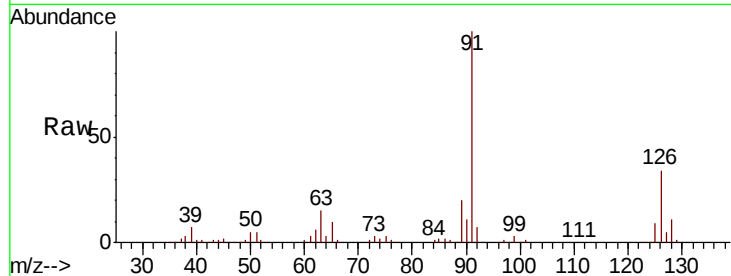
#79  
 2-Chlorotoluene  
 Concen: 48.373 ug/l  
 RT: 12.90 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

Tot Ion: 91 Resp: 138746  
 Ion Ratio Lower Upper  
 91 100  
 126 34.0 17.0 51.0

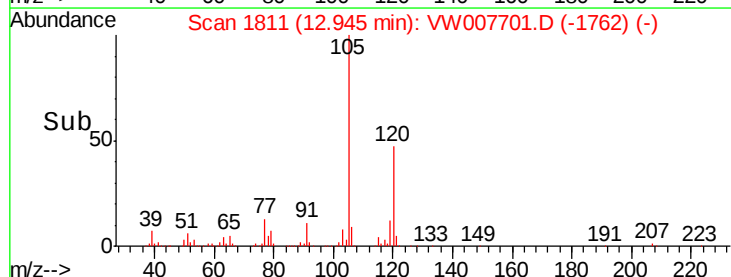
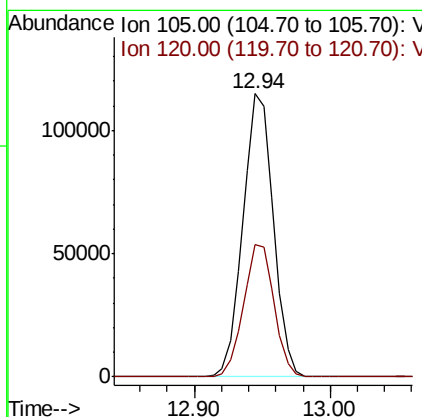
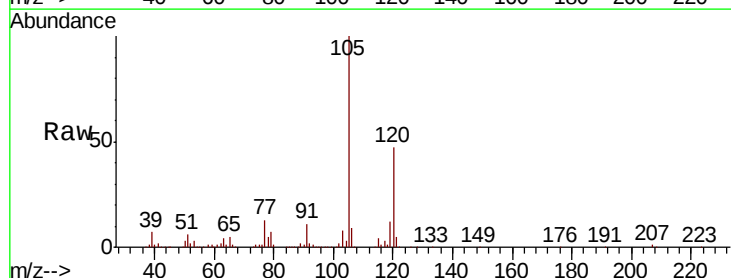
Manual Integrations  
 APPROVED

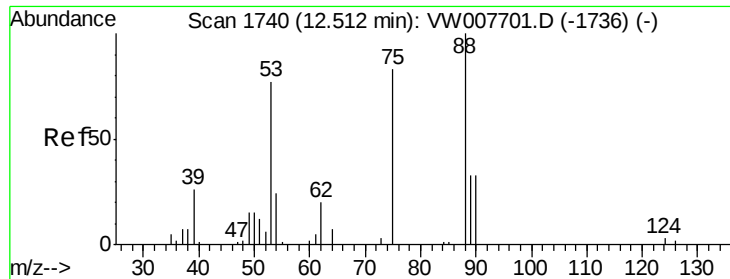
apatel  
 12/20/2018 11:19:39 AM



#80  
 1,3,5-Trimethylbenzene  
 Concen: 49.272 ug/l  
 RT: 12.94 min Scan# 1811  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Tgt Ion: 105 Resp: 179762  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 23.6 70.8





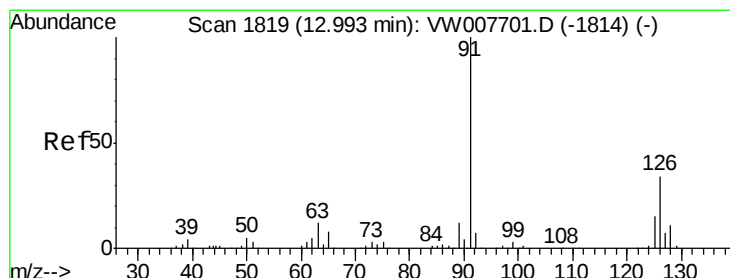
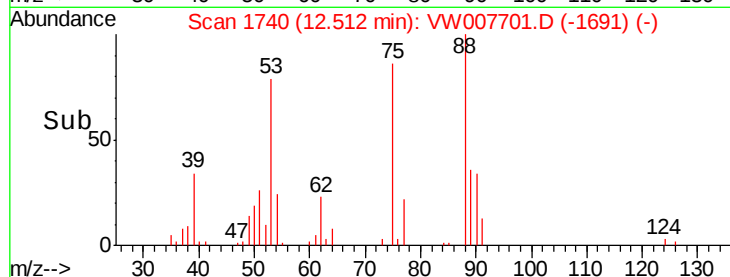
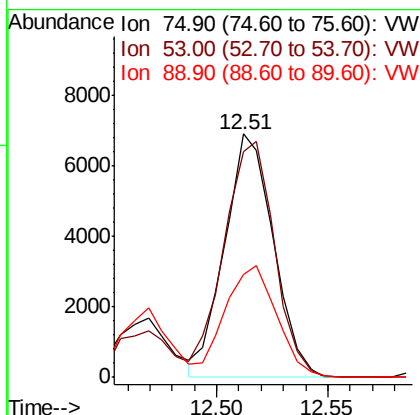
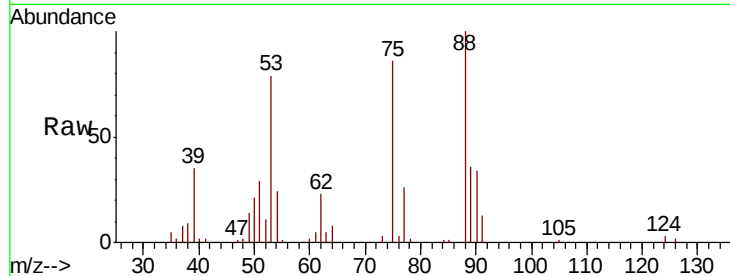
#81  
trans-1,4-Dichloro-2-butene  
Concen: 51.199 ug/l  
RT: 12.51 min Scan# 1740  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 100.2 | 80.2  | 120.2 |
| 89      | 49.0  | 39.2  | 58.8  |

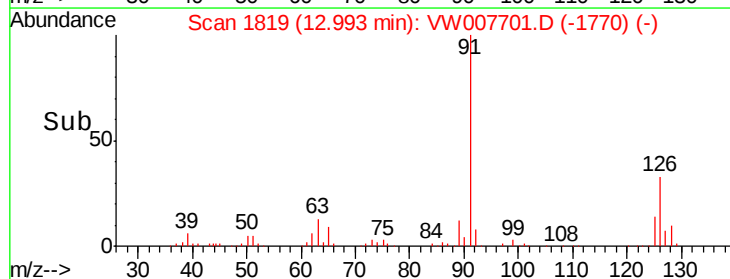
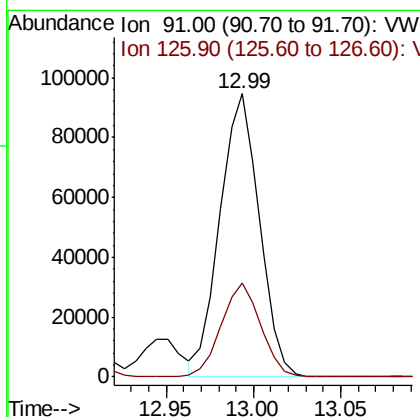
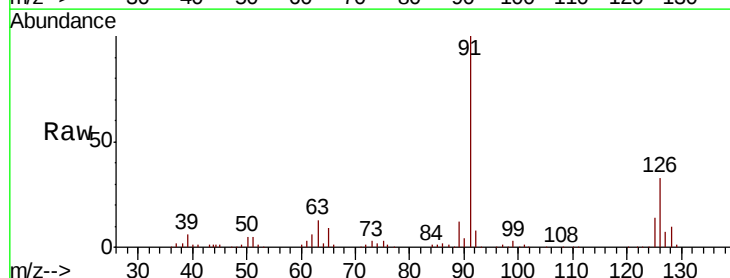
Manual Integrations  
APPROVED

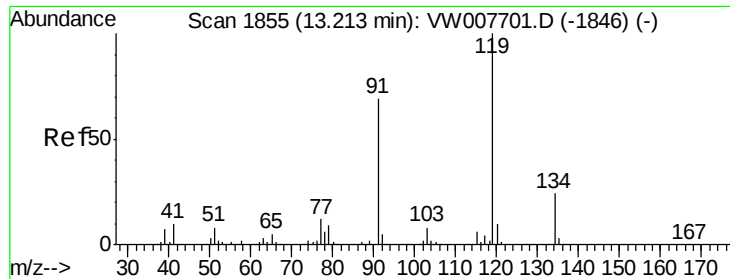
apatel  
12/20/2018 11:19:39 AM



#82  
4-Chlorotoluene  
Concen: 48.630 ug/l  
RT: 12.99 min Scan# 1819  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 33.0  | 16.5  | 49.5  |





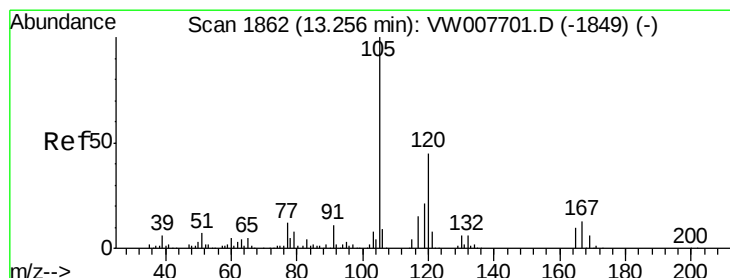
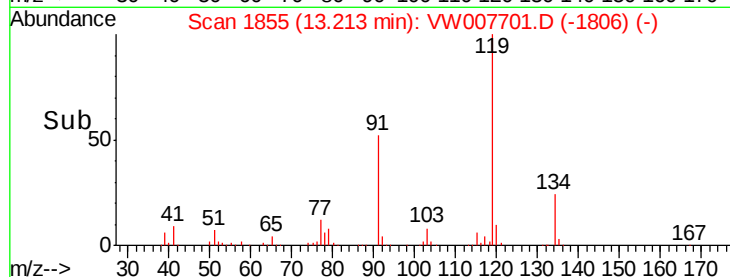
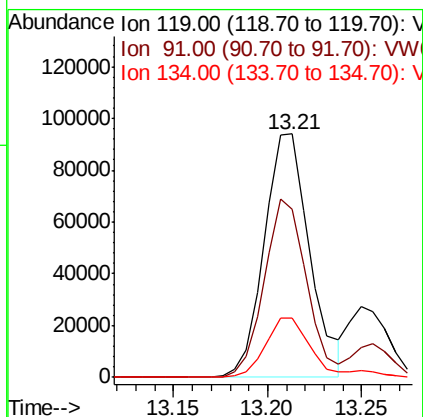
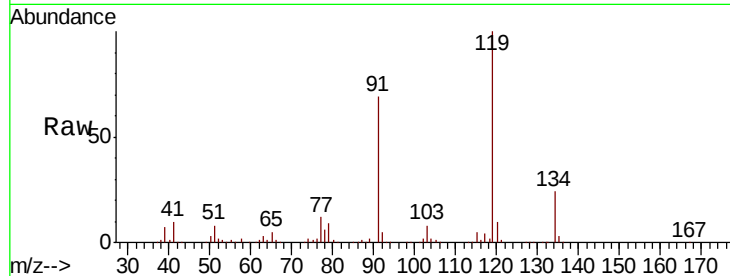
#83  
tert-Butylbenzene  
Concen: 49.240 ug/l  
RT: 13.21 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 68.3  | 34.2  | 102.5 |
| 134     | 25.6  | 12.8  | 38.4  |

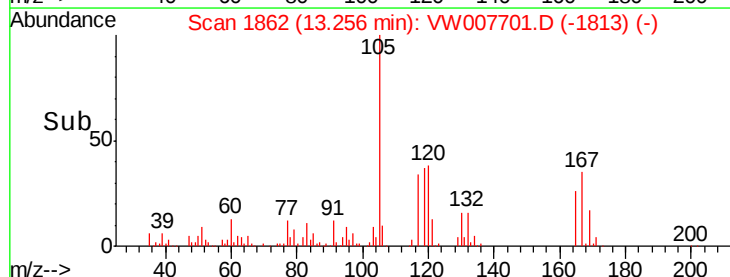
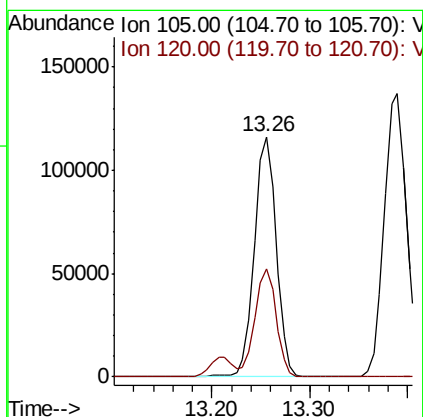
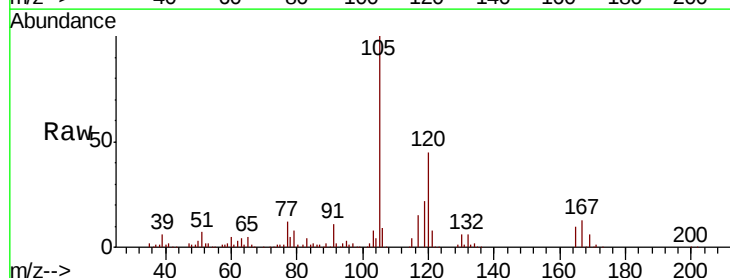
Manual Integrations  
APPROVED

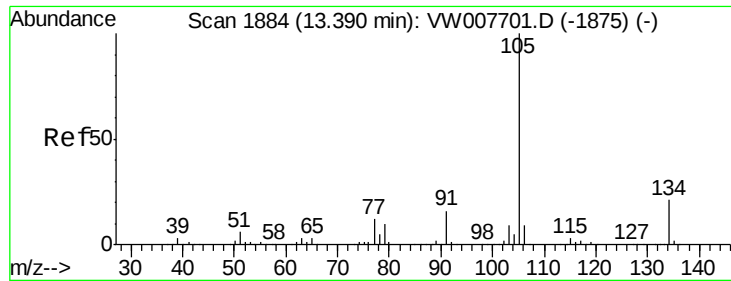
apatel  
12/20/2018 11:19:39 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 49.335 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.0  | 22.0  | 66.0  |





#85

sec-Butylbenzene

Concen: 49.003 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

Instrument :

MSVOA\_W

ClientSampleId :

VSTDICCC050

Tot Ion:105 Resp: 216191

Ion Ratio Lower Upper

105 100

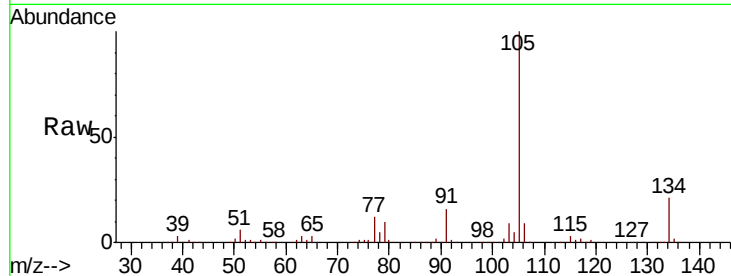
134 20.3 10.2 30.4

Manual Integrations

APPROVED

apatel

12/20/2018 11:19:39 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

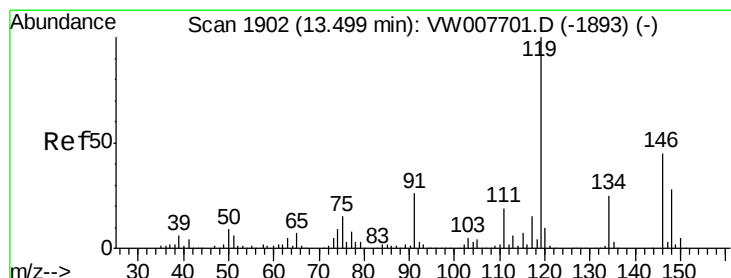
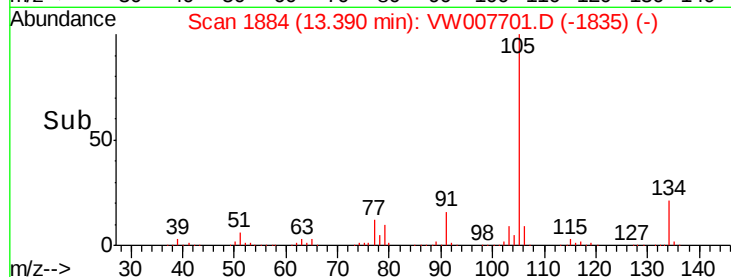
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 49.044 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW007701.D

Acq: 19 Dec 2018 14:53

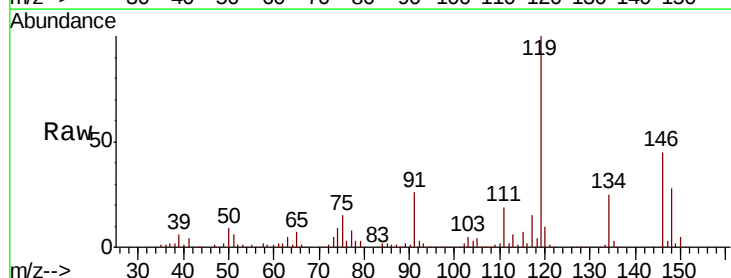
Tgt Ion:119 Resp: 196752

Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 25.6 12.8 38.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.50

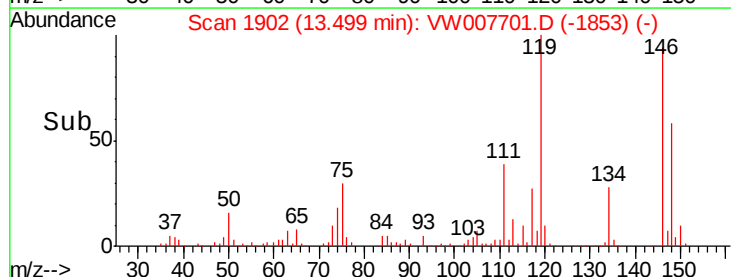
150000

100000

50000

0

Time-->





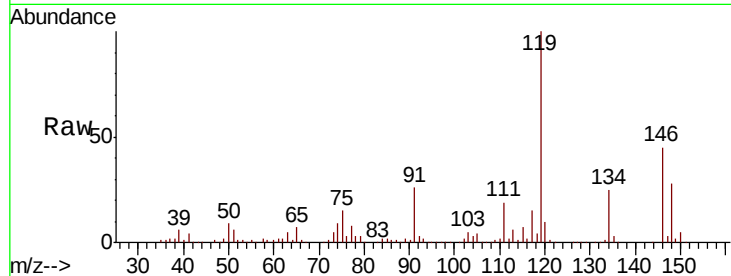
#87  
 1,3-Dichlorobenzene  
 Concen: 48.199 ug/l  
 RT: 13.50 min Scan# 1902  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.3  | 21.1  | 63.4  |
| 148     | 64.3  | 32.1  | 96.5  |

Manual Integrations  
 APPROVED

apatel  
 12/20/2018 11:19:39 AM

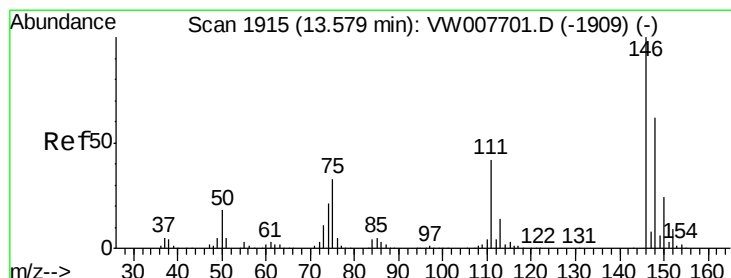
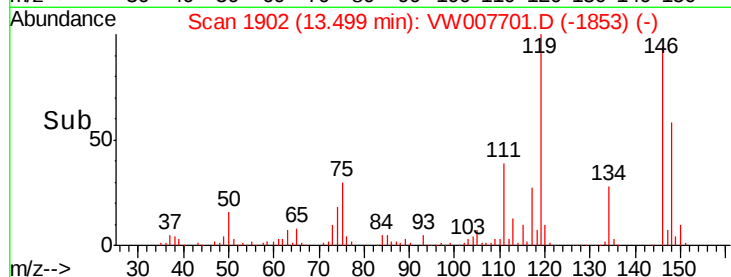
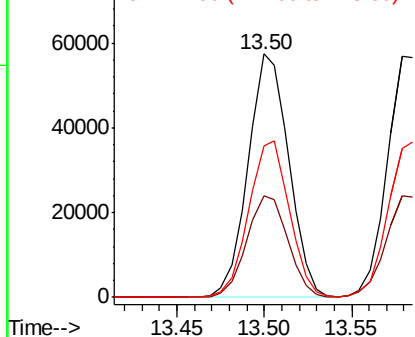


Abundance

Ion 145.90 (145.60 to 146.60): V

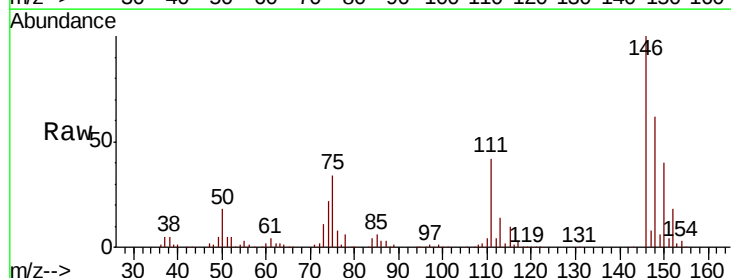
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88  
 1,4-Dichlorobenzene  
 Concen: 48.370 ug/l  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.0  | 21.0  | 63.0  |
| 148     | 63.6  | 31.8  | 95.4  |

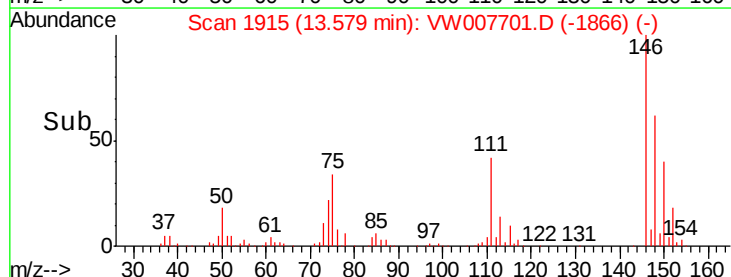
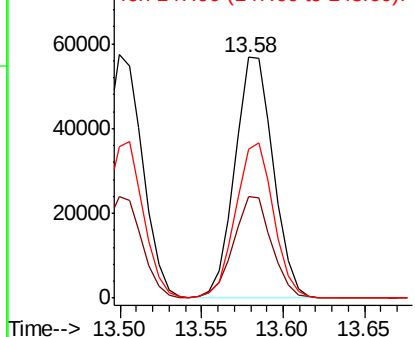


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





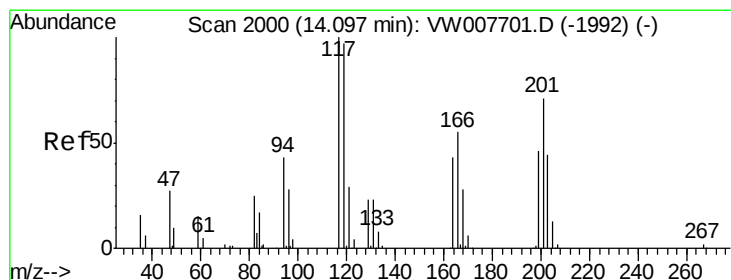
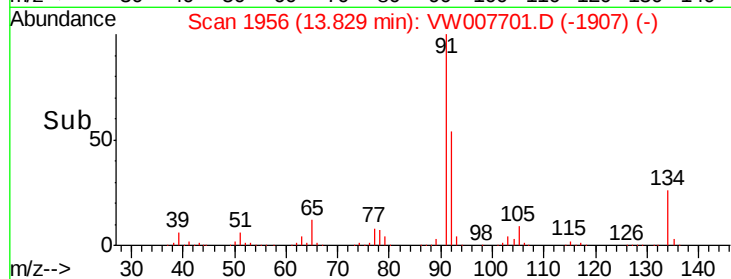
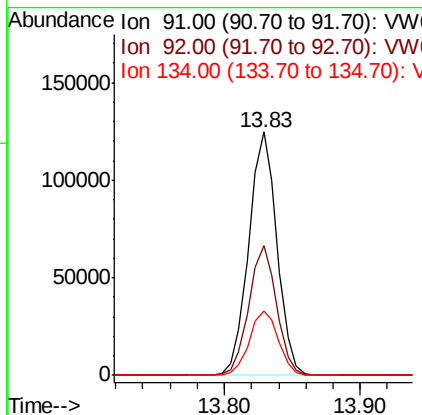
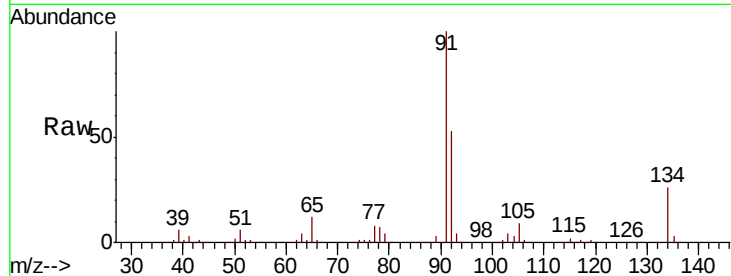
#89  
n-Butylbenzene  
Concen: 49.233 ug/l  
RT: 13.83 min Scan# 1956  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 91      | 100  |       | 181089 |       |       |
| 92      | 52.8 | 26.4  | 79.2   |       |       |
| 134     | 27.3 | 13.7  | 41.0   |       |       |

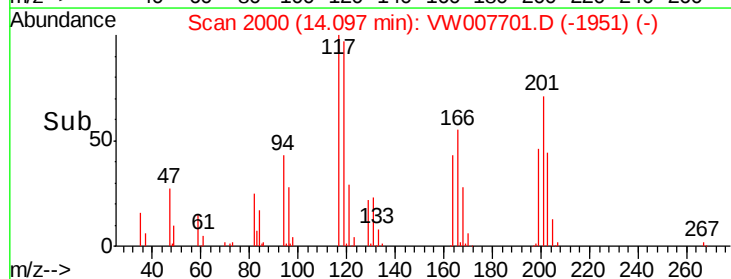
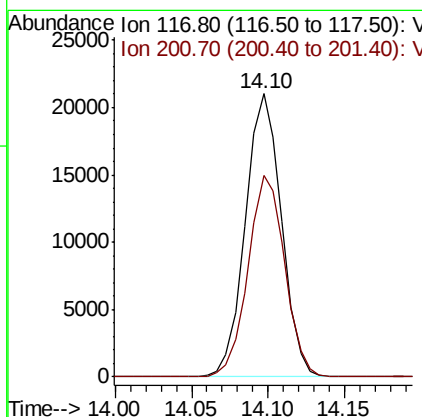
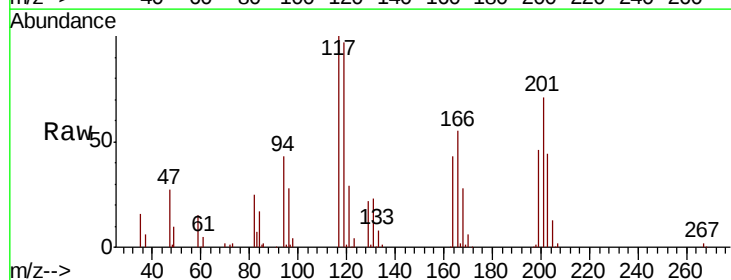
Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#90  
Hexachloroethane  
Concen: 48.856 ug/l  
RT: 14.10 min Scan# 2000  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 117     | 100  |       | 34409 |       |       |
| 201     | 72.4 | 36.2  | 108.6 |       |       |





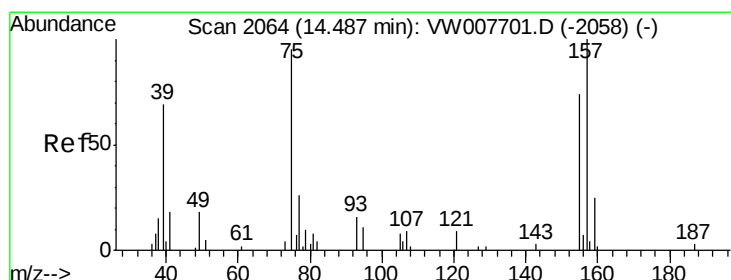
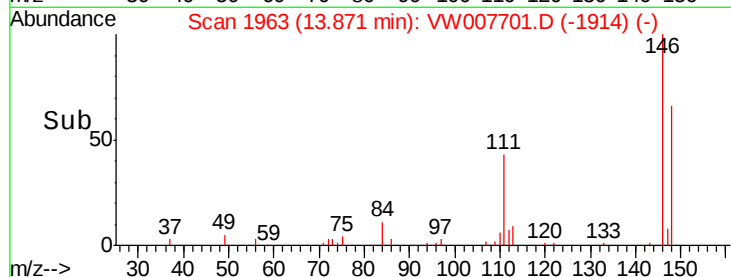
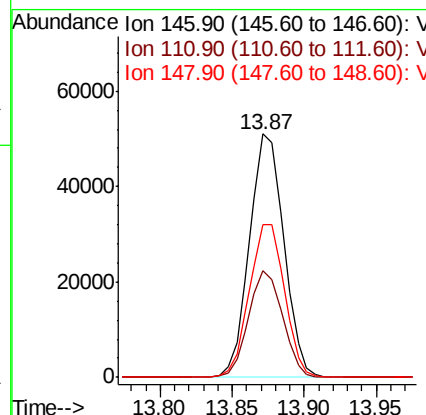
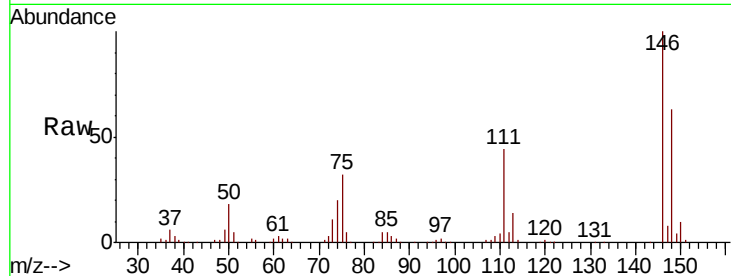
#91  
 1,2-Dichlorobenzene  
 Concen: 48.821 ug/l  
 RT: 13.87 min Scan# 1963  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.4  | 21.7  | 65.1  |
| 148     | 64.3  | 32.1  | 96.5  |

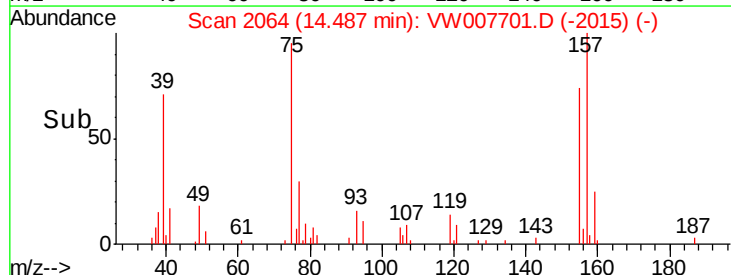
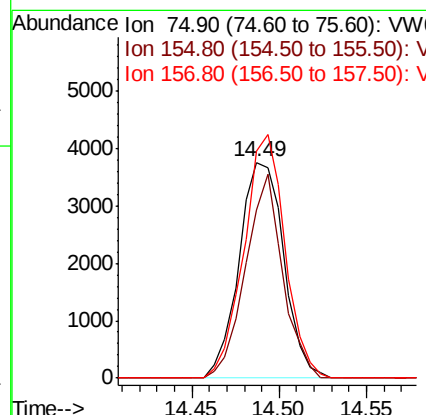
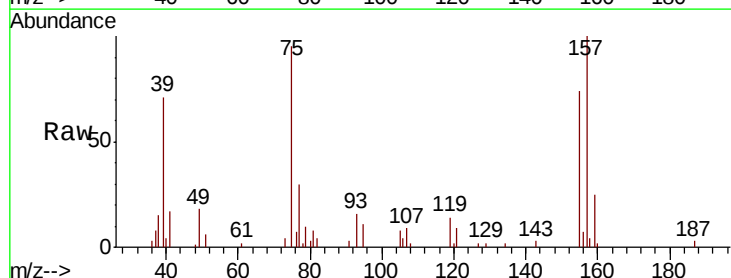
Manual Integrations  
 APPROVED

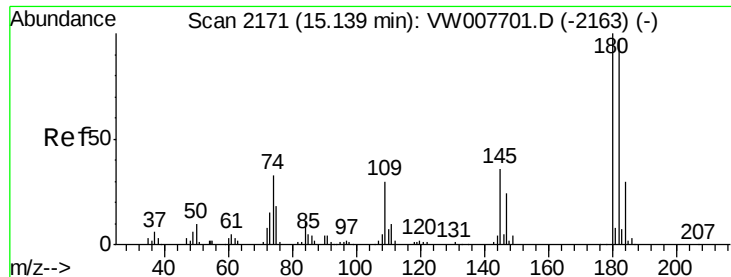
apatel  
 12/20/2018 11:19:39 AM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 51.161 ug/l  
 RT: 14.49 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 78.7  | 39.4  | 118.1 |
| 157     | 104.0 | 52.0  | 156.0 |





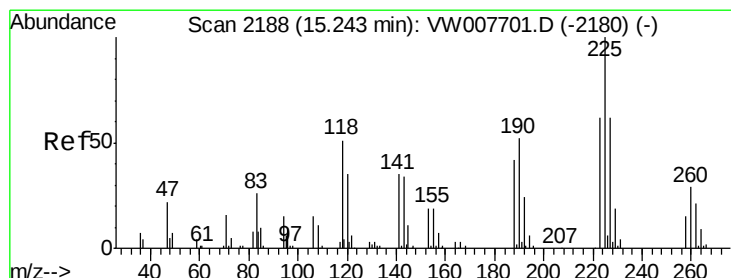
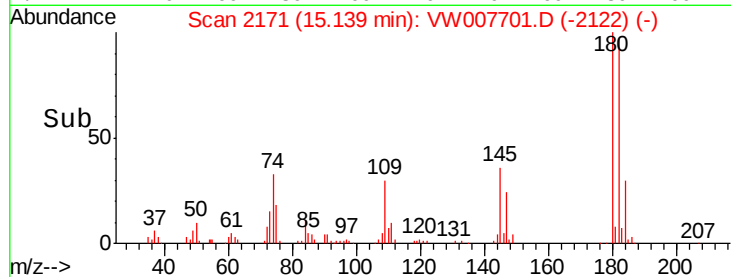
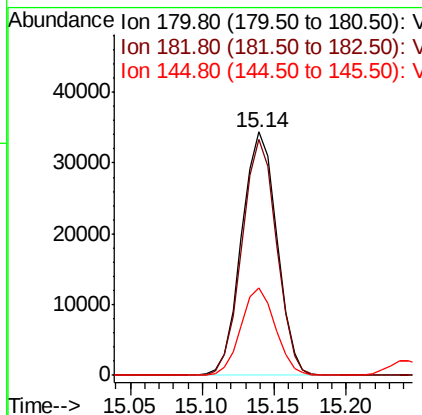
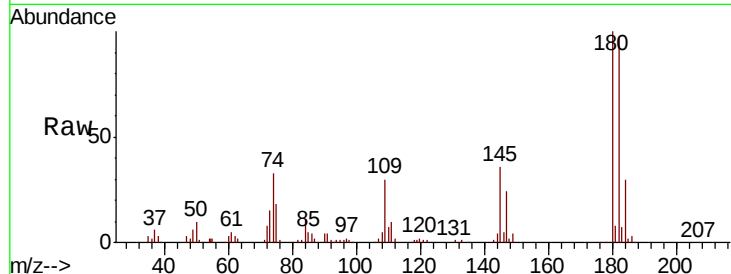
#93  
 1,2,4-Trichlorobenzene  
 Concen: 48.818 ug/l  
 RT: 15.14 min Scan# 2171  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDICCC050

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 58393 |       |       |
| 182     | 95.1  | 47.5  | 142.6 |       |
| 145     | 35.0  | 17.5  | 52.5  |       |

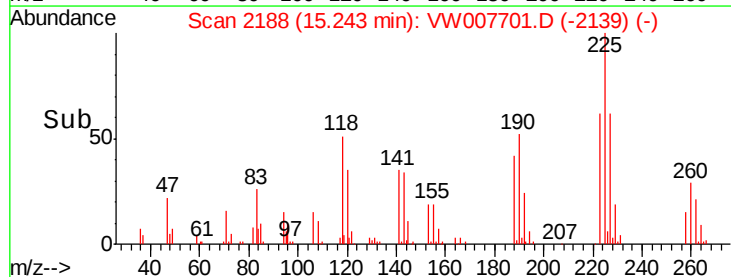
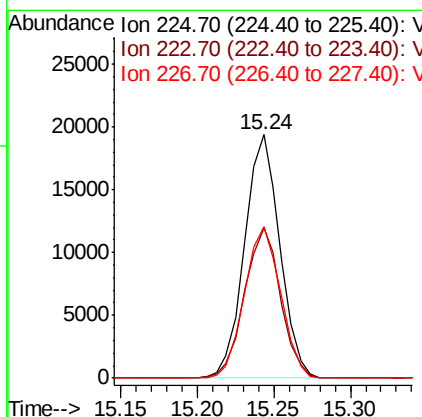
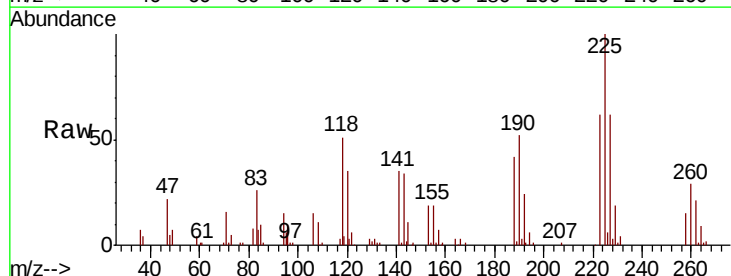
Manual Integrations  
 APPROVED

apatel  
 12/20/2018 11:19:39 AM



#94  
 Hexachlorobutadiene  
 Concen: 48.433 ug/l  
 RT: 15.24 min Scan# 2188  
 Delta R.T. 0.00 min  
 Lab File: VW007701.D  
 Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 30960 |       |       |
| 223     | 63.2  | 31.6  | 94.8  |       |
| 227     | 64.2  | 32.1  | 96.3  |       |





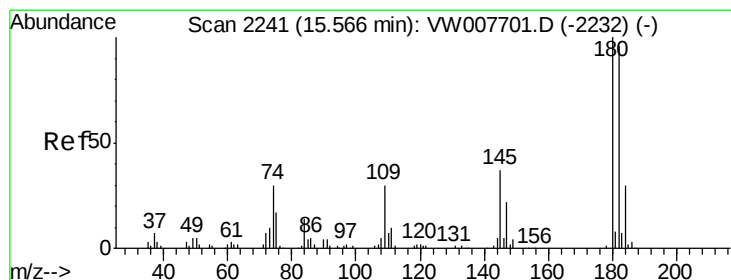
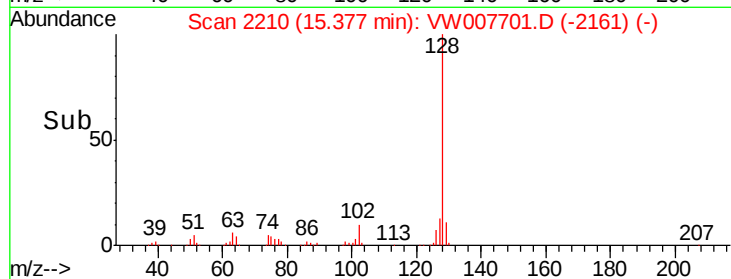
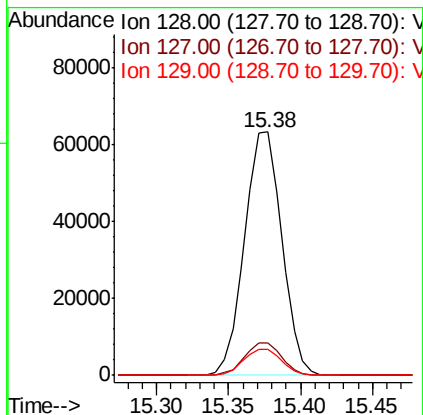
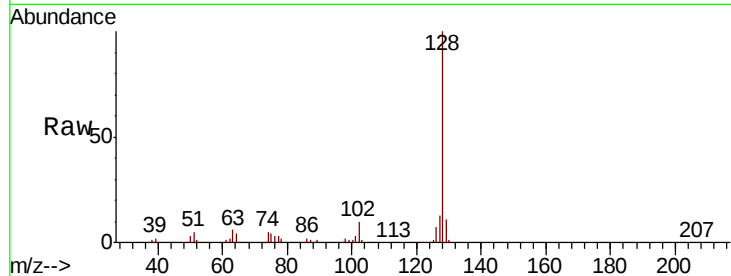
#95  
Naphthalene  
Concen: 51.305 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 113458 |       |       |
| 127     | 13.4  |        | 10.7  | 16.1  |
| 129     | 11.0  |        | 8.8   | 13.2  |

Manual Integrations  
APPROVED

apatel  
12/20/2018 11:19:39 AM



#96  
1,2,3-Trichlorobenzene  
Concen: 49.754 ug/l  
RT: 15.57 min Scan# 2241  
Delta R.T. 0.00 min  
Lab File: VW007701.D  
Acq: 19 Dec 2018 14:53

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 50943 |       |       |
| 182     | 94.8  |       | 47.4  | 142.2 |
| 145     | 36.7  |       | 18.4  | 55.0  |

